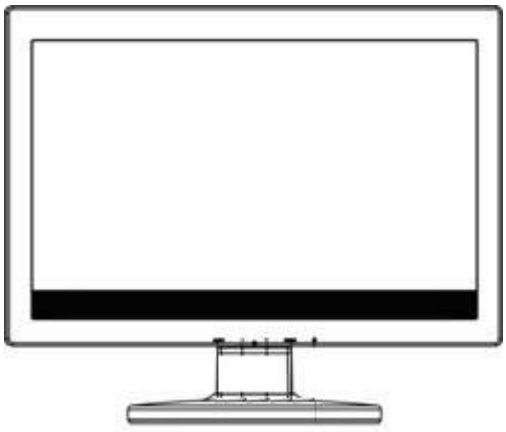
Service
Service
Service



Service Manual

Horizontal Frequency
30- 80 kHz

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ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFOMER FOR THIS UNIT WHEN SERVICING

Revision List

Revision	Date	Revision History	TPV Model
A00	Oct.-27-2008	First Version Release	T58ARDNCWJA2NNE
A01	Dec.-08-2008	Add New Model In Item 13	T58ARDNCWJA13NE
A02	Jan.-20-09	Add New Model In Item 13	T58ARDNCWJA4NNE
A03	Feb.-04-09	Add New Model In Item 13	T58ARDNCWJA1NNE

1. Monitor Specification

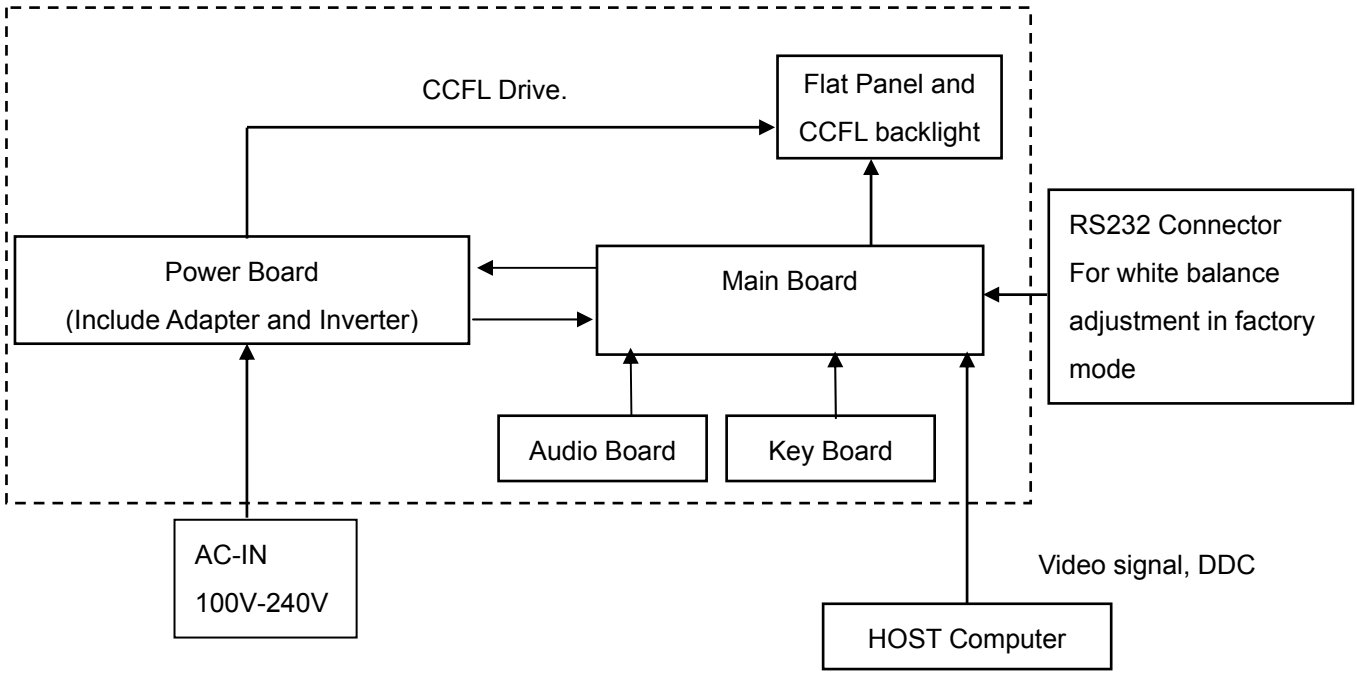
	Driving system	TFT Color LCD
LCD Panel	Size	381mm
	Pixel pitch	0.2595mm(H)x 0.2595mm(V)
	Video	R,G,B Analog Interface
Input	Separate Sync.	H/V TTL
	H-Frequency	30kHz – 60kHz
	V-Frequency	55Hz-75Hz
Display Colors		16.7M Colors
Dot Clock		75MHz
Max. Resolution		1280 x 720@60HZ
Plug & Play		VESA DDC2B™
EPA ENERGY STAR®	ON Mode	≤23W (For 2 CCFL)
	OFF Mode	≤1 W
Input Connector		D-Sub 15pin
Input Video Signal		Analog:0.7Vp-p(standard), 75 OHM, Positive
Maximum Screen Size		Horizontal :344.3mm Vertical :193.5mm
Power Source		100-240VAC,50/60Hz
Environmental Considerations		Operating Temp: 5° to 35°C Storage Temp.: -20° to 60°C Operating Humidity: 10% to 85%
Weight (N. W.)		2.7kg
Dimensions		373(W)x 313 (H) x 190 (D)mm
Regulatory Compliance		FCC

2. LCD Monitor Description

The LCD MONITOR will contain a main board, a power board, a key board and an audio board which house the flat panel control logic, brightness control logic and DDC.

The power board will provide AC to DC voltage to drive the backlight of panel and the main board chips each voltage.

Monitor Block Diagram



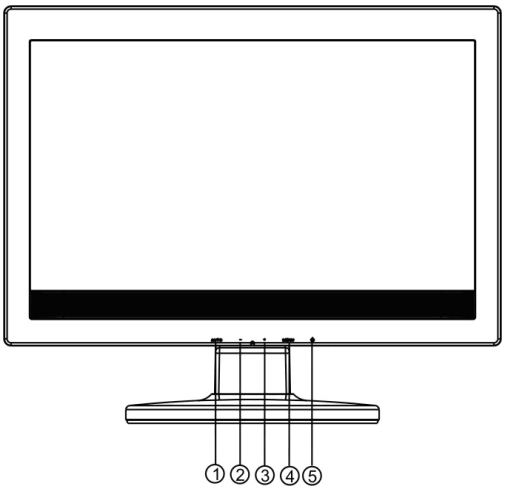
3. Operating Instructions

3.1 General Instructions

Press the power button to turn the monitor on or off. The other control buttons are located at the front panel of the monitor. By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor, the power indicator will light up.

3.2 Control Buttons



1	Auto Config / Exit	4	MENU / ENTER
2	-/ECO	5	Power Button
3	+/DCR		

- **Power Button /Power Indicator:**

  Press this button to switch ON/OFF of monitor's power.

  Green — Power On mode.

  Orange — Power saving mode.

- **MENU / ENTER :**

  Active OSD menu or function adjust confirm or Exit OSD menu when in volume OSD status.

- **Contrast :**

  Adjust contrast or adjust function.

- **Brightness :**

  Adjust brightness or adjust function.

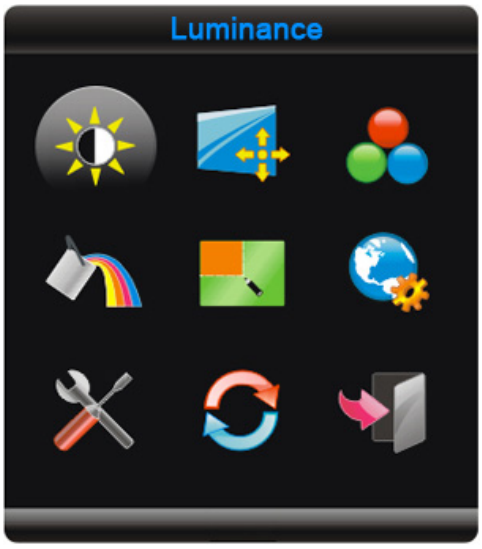
- **Auto Adjust button / Exit:**

  1. When OSD menu is in active status, this button will act as EXIT-KEY (EXIT OSD menu).
  2. When OSD menu is in off status, press this button to activate the Auto Adjustment function.

     The Auto Adjustment function is used to optimized the HPos, VPos, Clock and Focus.

3.3 Adjusting The Pictures

1. Press the MENU-button to activate the OSD window.
2. Press ◀or ▶ to navigate through the functions. Once the desired function is highlighted, press the MENU-button to activate it. If the function selected has a sub-menu, press ◀or ▶again to navigate through the sub-menu Functions. Once the desired function is highlighted, press MENU-button to activate it.
3. Press ◀or ▶ to change the settings of the selected function.
4. To exit and save, select the exit function. If you want to adjust any other function, repeat steps 2-3.



The table below describes the function of each OSD icon.

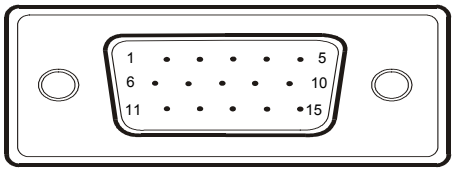
	Luminance	Adjust Range	Description
	Brightness	0-100	Backlight Adjustment
	Contrast	0-100	Contrast from Digital-register.
	Eco mode	Standard	Standard Mode
		Text	Text Mode
		Internet	Internet Mode
		Game	Game Mode
		Movie	Movie Mode

		Sports	Sports Mode
	Gamma	Gamma1	Adjust to Gamma1
		Gamma2	Adjust to Gamma 2
		Gamma3	Adjust to Gamma 3
	DCR	Off	Disable dynamic contrast ratio
		On	Enable dynamic contrast ratio
	Image Setup		
	Clock	0-100	Adjust picture Clock to reduce Vertical-Line noise.
	Phase	0-100	Adjust Picture Phase to reduce Horizontal-Line noise
	H.Position	0-100	Adjust the horizontal position of the picture.
	V.Position	0-100	Adjust the verticalposition of the picture.
	Color Temp.		
	Warm	6500K	Recall Warm Color Temperature from EEPROM.
	Normal	7300K	Recall Normal Color Temperature from EEPROM.
	Cool	9300K	Recall Cool Color Temperature from EEPROM.
	sRGB		Recall SRGB Color Temperature from EEPROM.
	User	Red	Red Gain from Digital-register
		Green	Green Gain Digital-register.
		Blue	Blue Gain from Digital-register
	Color Boost		
	Full Enhance	on or off	Disable or Enable Full Enhance Mode
	Nature Skin	on or off	Disable or Enable Nature Skin Mode
	Green Field	on or off	Disable or Enable Green Field Mode
	Sky-blue	on or off	Disable or Enable Sky-blue Mode
	AutoDetect	on or off	Disable or Enable AutoDetect Mode
	Demo	on or off	Disable or Enable Demo
	Picture Boost		
	Frame Size	14-100	Adjust Frame Size
	Brightness	0-100	Adjust Frame Brightness
	Contrast	0-100	Adjust Frame Contrast
	H. position	0-100	Adjust Frame horizontal Position
	V.position	0-100	Adjust Frame vertical Position

	Bright Frame	on or off	Disable or Enable Bright Frame
	OSD Setup		
	H.Position	0-100	Adjust the horizontal position of OSD
	V.Position	0-100	Adjust the vertical position of OSD
	Timeout	5-120	Adjust the OSD Timeout
	Transparence	0-100	Adjust the transparence of OSD
	Language		Select the OSD language
	Extra		
	Input Select	Analog	Select Analog Sigal Source as Input
	Auto Config	yes or no	Auto adjust the picture to default
	Image Ratio	wide or 4:3	Select wide or 4:3 format for display
	DDC-CI	yes or no	Turn ON/OFF DDC-CI Support
	Information		Show the information of the main image and sub-image source
	Reset		
	Reset	yes or no	Reset the menu to default
	Exit		
	Exit		Exit the main OSD

4. Input/Output Specification

4.1 Input Signal Connector

Pin No.	Description	Pin No.	Description
1.	Red	9.	+5V
2.	Green	10.	Ground
3.	Blue	11.	RDX
4.	Monitor Ground	12.	Monitor Ground
5.	VGA-CON	13.	H-Sync
6.	R-Ground	14.	V-Sync
7.	G-Ground	15.	DDC-Serial Clock
8.	B-Ground		
VGA Connector layout			
			

4.2 Factory Preset Display Modes

STANDARD	RESOLUTION	HORIZONTAL FREQUENCY	VERTICAL FREQUENCY
VGA	720 x 400	31.47	70.0
	640 × 480	31.47	60.0
	640 × 480	35.00	66.6
	640 × 480	37.50	75.0
	640 × 480	37.861	72.8
SVGA	800 × 600	35.156	56.3
	800 × 600	37.879	60.0
	800 × 600	48.077	72.2
	800 × 600	46.875	75.0
	832 x 624	49.725	75.0
XGA	1024 × 768	48.363	60.0
	1024 × 768	56.476	70.0
	1024 × 768	60.02	75.0
WXGA	1280 × 720	44.772	59.9

5. Panel Specification

5.1 General Characteristics

Items	Unit	Specifications
Screen Diagonal	[mm]	15.0"W
Active Area	[mm]	332.16 (W) x 186.84 (H)
Pixels H x V		1280x3(RGB) x 720
Pixel Pitch	[mm]	0.2595X0.2595
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		Normally White
White Luminance (ICCFL=7.5mA)	[cd/m^2]	200 cd/m^2 @ 7.5mA (Typ)
Contrast Ratio		400 (typ)
Response Time	[msec]	8 (Typ, on/off)
Nominal Input Voltage VDD	[Volt]	+3.3 typ.
Power Consumption	[Watt]	12.6W(Typ) (PDD=2.6W, PCFL=10W@Lamp=7.5mA)
Weight	[Grams]	1160(Typ)
Physical Size(H x V x D)	[mm]	354.12(W) x 227.4(H) x 12.0(D)(Typ)
Electrical Interface		one channel LVDS
Surface Treatment		Anti-Glare, Hardness 3H
Support Color		16.7M colors (RGB 6-bit + HiFRC)
RoHS Compliance		RoHS Compliance

5.2 Optical Characteristics

The optical characteristics are measured under stable conditions at 25 (Room Temperature) ℃ :

Item	Unit	Conditions	Min.	Typ.	Max.
Viewing Angle	[degree]	Horizontal (Right) CR = 10 (Left)	35 35	45 45	- -
		Vertical (Up) CR = 10 (Down)	10 30	20 40	- -
		Horizontal (Right) CR = 5 (Left)	45 45	55 55	- -
		Vertical (Up) CR = 5 (Down)	20 40	30 50	- -
Luminance Uniformity	[%]	9 Points	70%	80%	
Response Time	[msec]	Rising	-	6	9
		Falling	-	2	4
		Rising + Falling		8	13
Color / Chromaticity Coordinates (CIE 1931)		Red x	0.559	0.589	0.619
		Red y	0.307	0.337	0.367
		Green x	0.282	0.312	0.342
		Green y	0.522	0.552	0.582
		Blue x	0.128	0.158	0.188
		Blue y	0.115	0.145	0.175
		White x	0.283	0.313	0.343
		White y	0.299	0.329	0.359
White Luminance ICCFL=7.5 mA	[cd/m^2]		160	200	-
CR: Contrast Ratio			240	400	-
Cross talk	[%]			1.2	1.5
Flicker	[dB]		-		-20

FOR TPV INTERNAL USE ONLY

5.3 Electrical Characteristics

TFT LCD Module

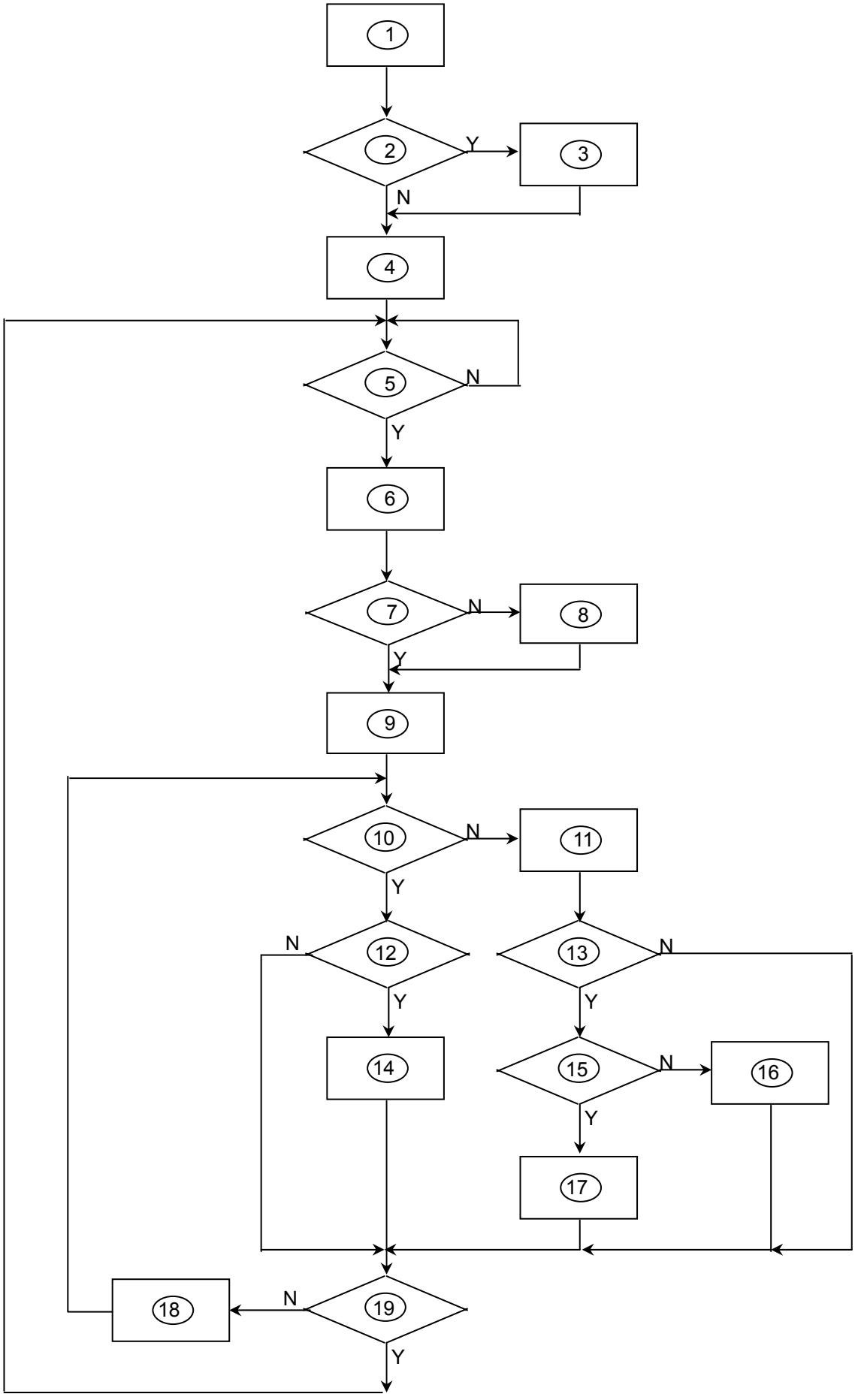
Item	Symbol	Min	Max	Unit
Logic/LCD Drive Voltage	Vin	-0.3	+3.6	[Volt]

Backlight Unit

Item	Symbol	Min	Max	Unit
CCFL Current	ICCFL	-	8.0	[mA] rms

6. Block Diagram

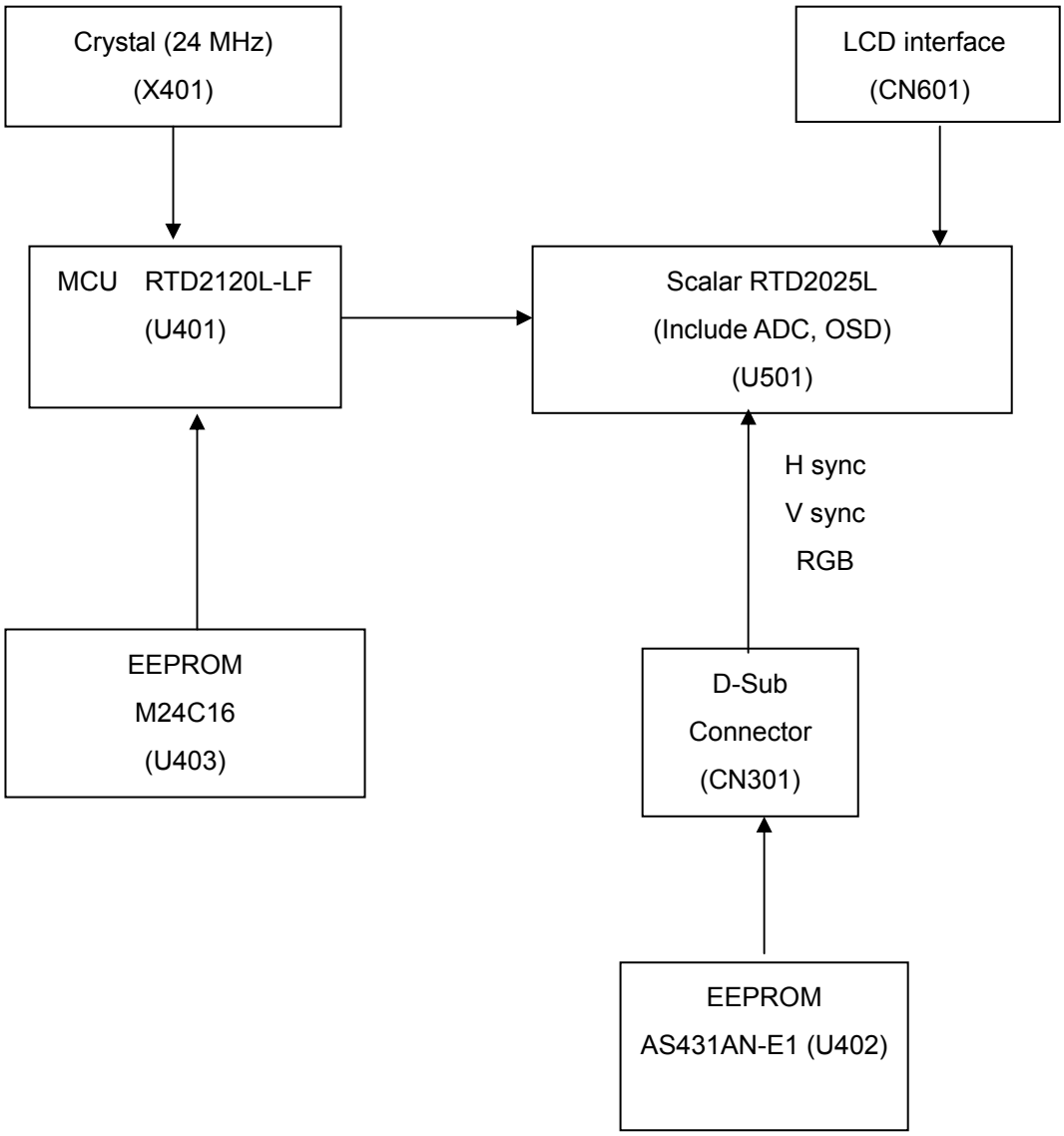
6. 1 Software Flow Chart



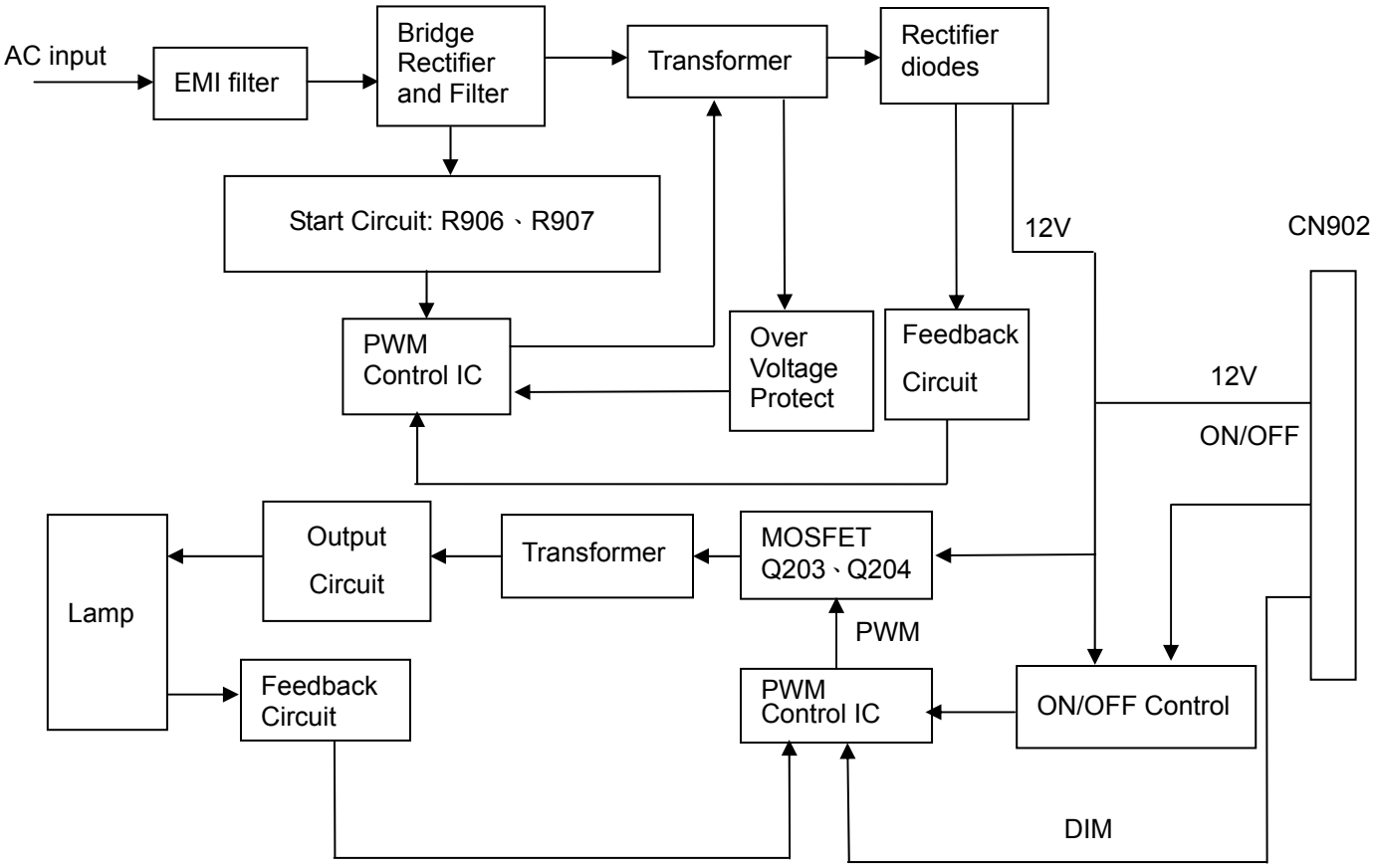
1) MCU initializes.
2) Is the EEPROM blank?
3) Program the EEPROM by default values.
4) Get the PWM value of brightness from EEPROM.
5) Is the power key pressed?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode.
9) Save the power key status into EEPROM. Turn on the LED and set it to green color. Scaler initializes.
10) In standby mode?
11) Update the lifetime of back light.
12) Check the analog port, are there any signals coming?
13) Does the scalar send out an interrupt request?
14) Wake up the scalar.
15) Are there any signals coming from analog port?
16) Display "No connection Check Signal Cable" message. And go into standby mode after the message disappears.
17) Program the scalar to be able to show the coming mode.
18) Process the OSD display.
19) Read the keyboard. Is the power key pressed?

6.2 Electrical Block Diagram

6.2.1 Main Board

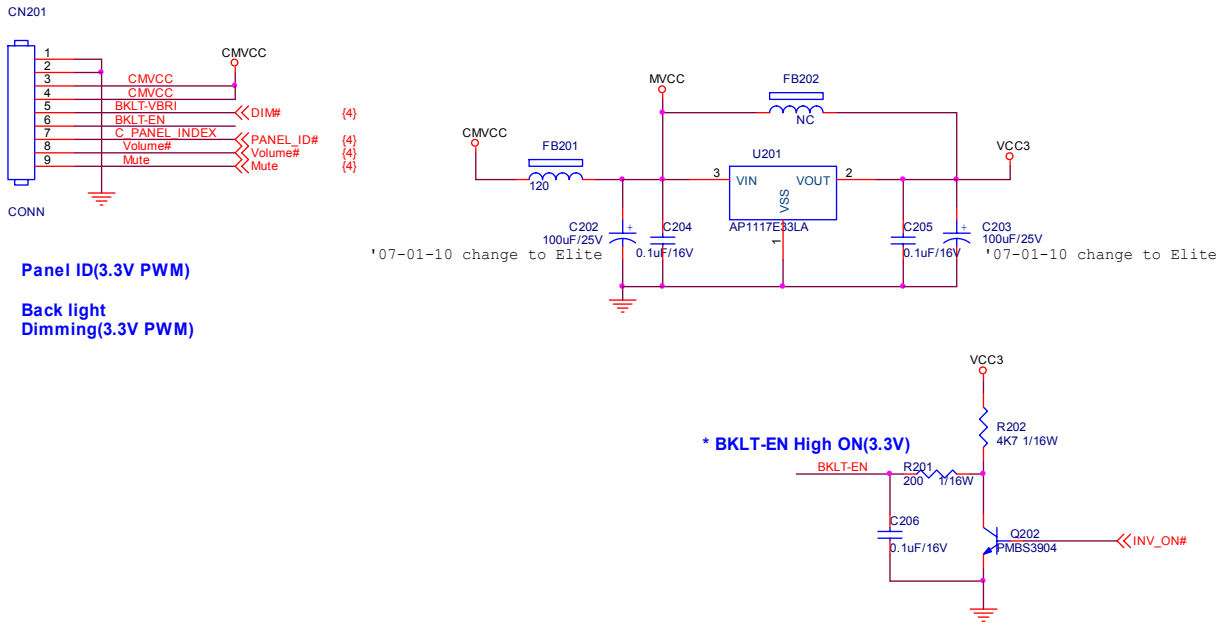


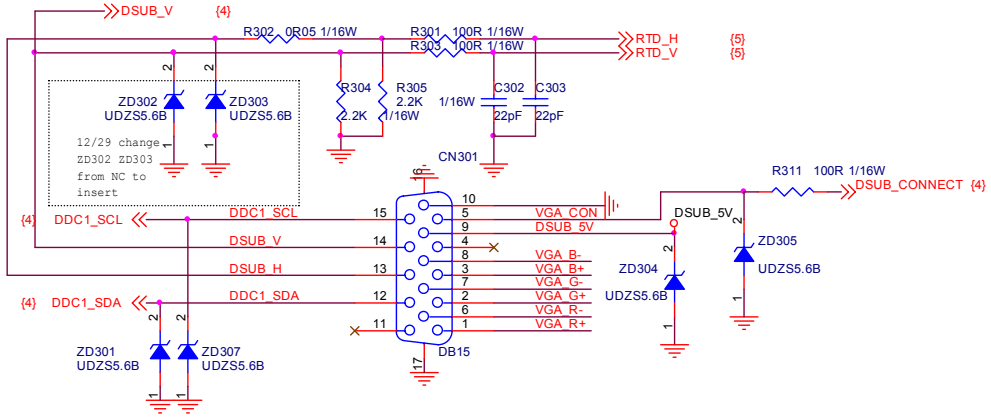
6.2.2 Power Board

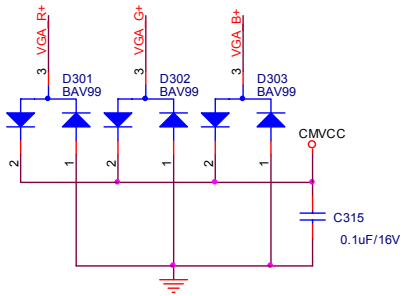


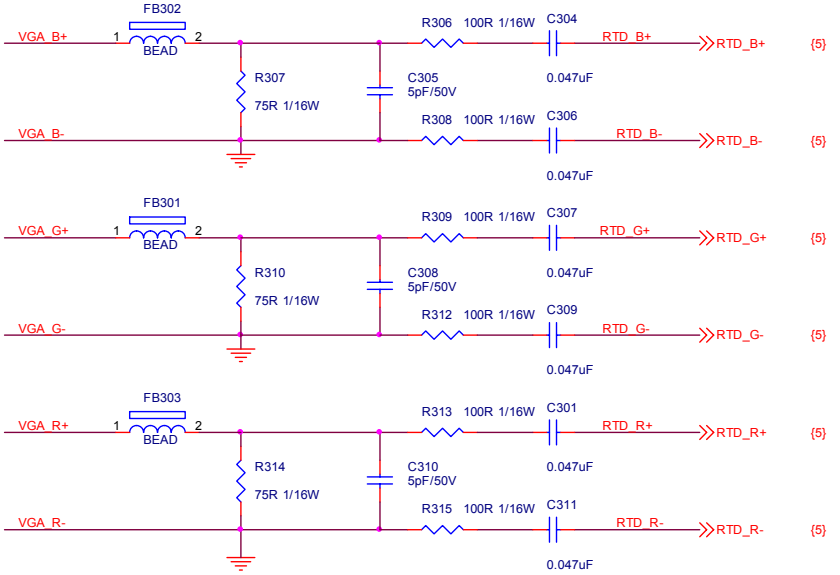
7. Schematic

7.1 Main Board









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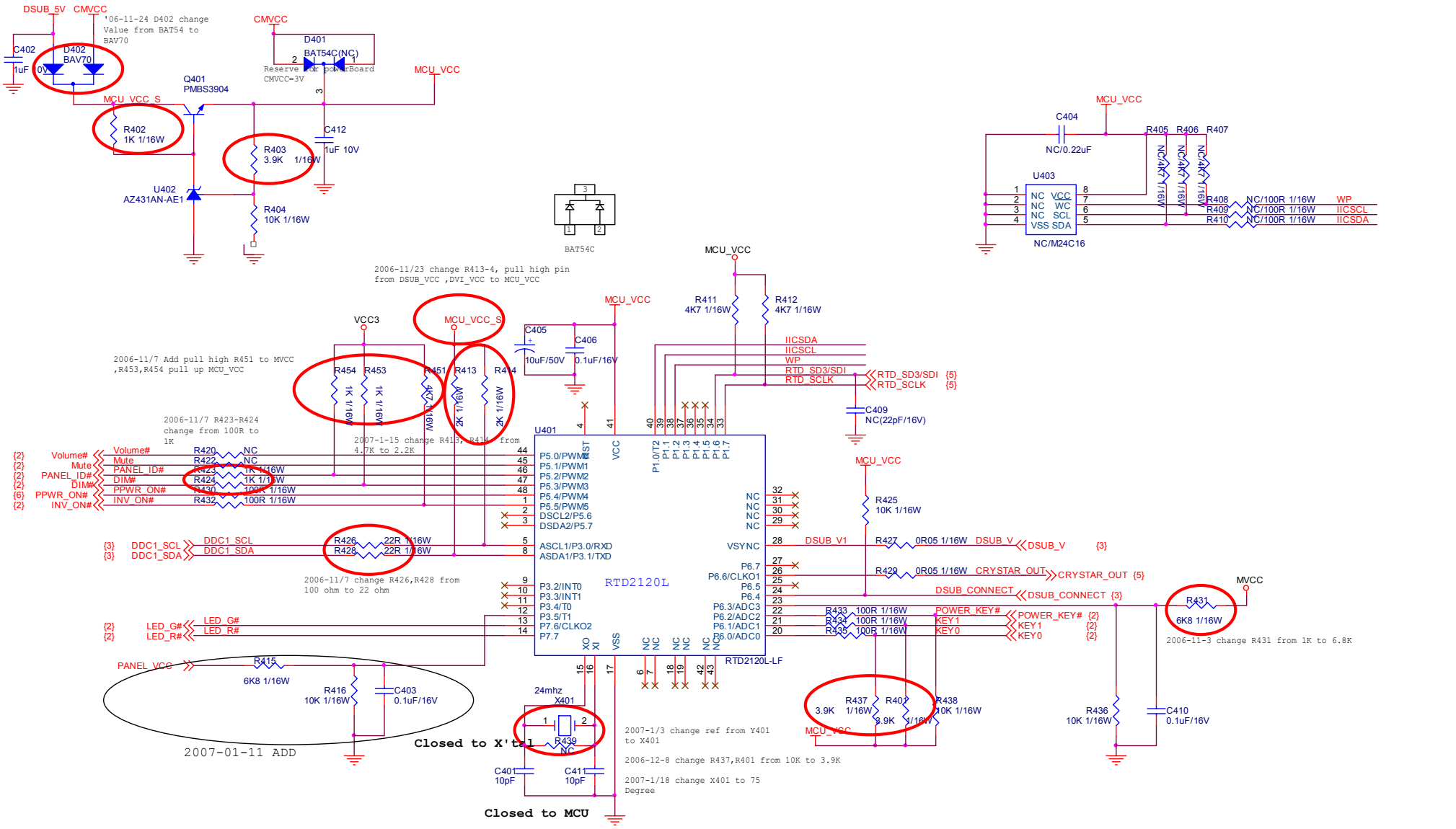
Date: Sunday, January 06, 2008	Sheet 3 of 6	



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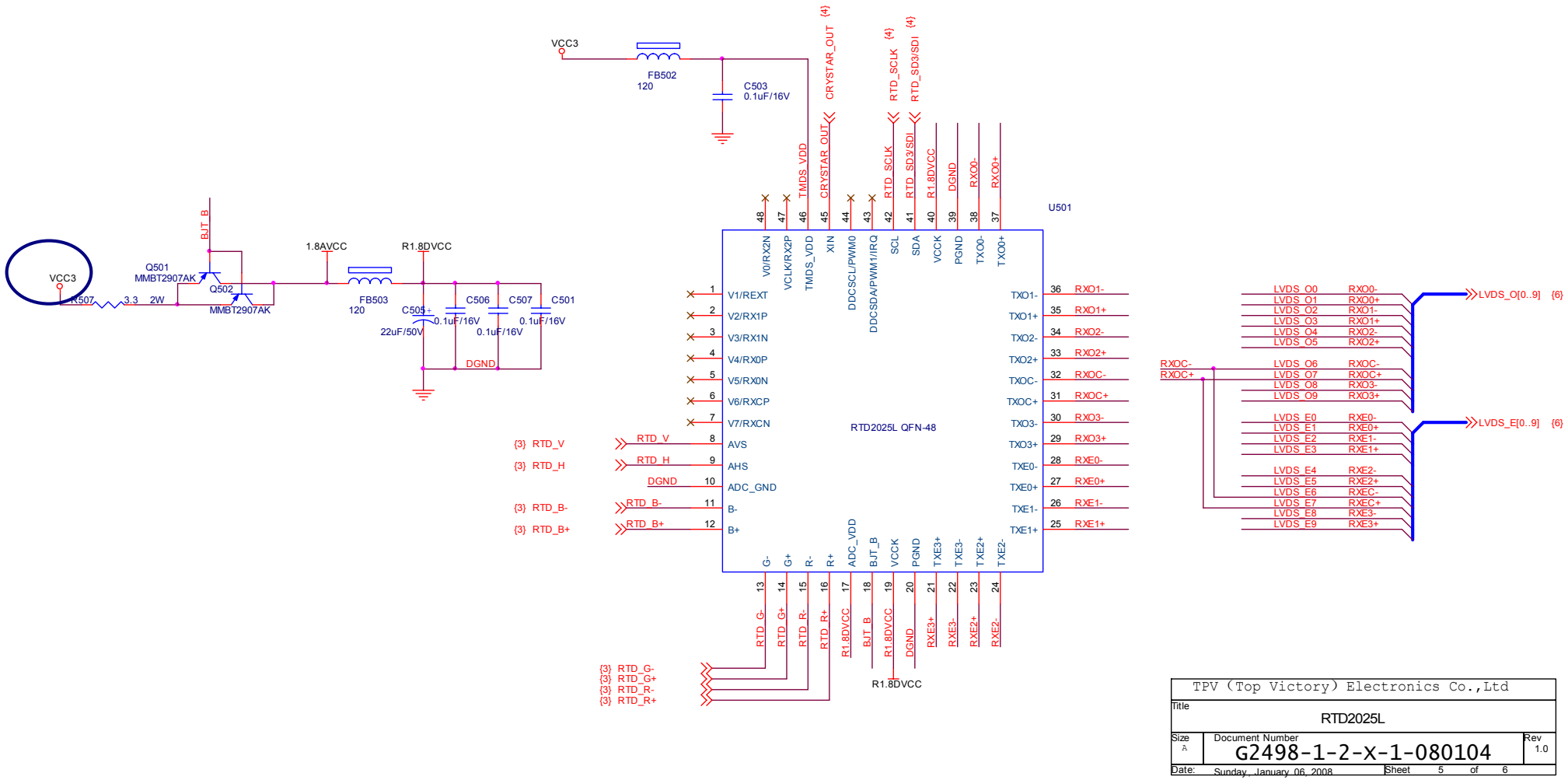

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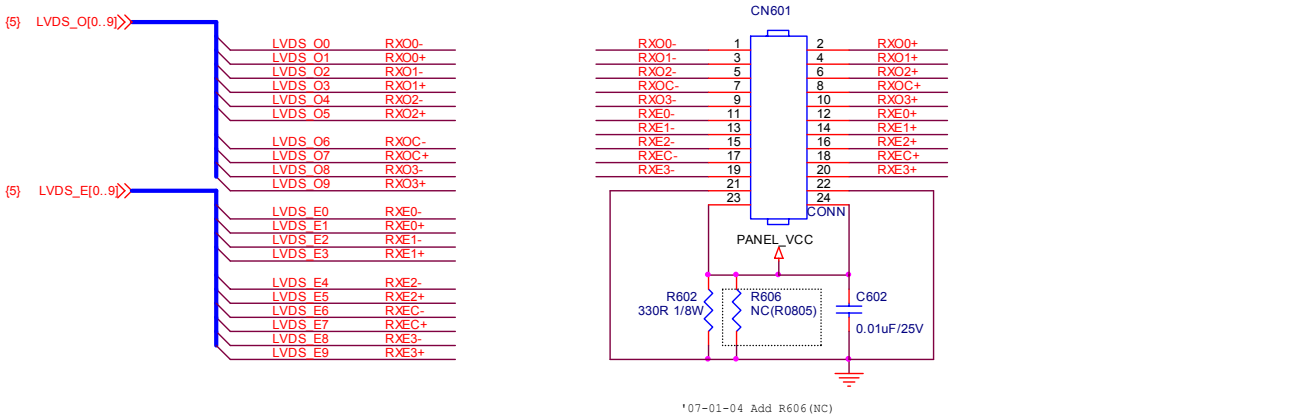
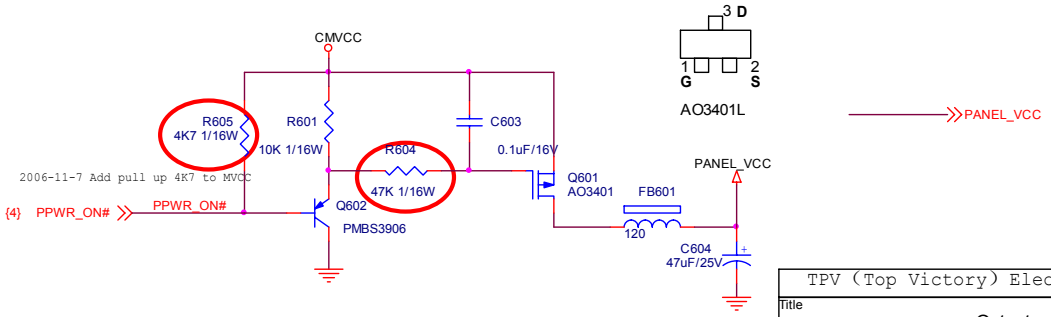
Date: Sunday, January 06, 2008	Sheet 5 of 6	

LVDS Panel (Normal Type)





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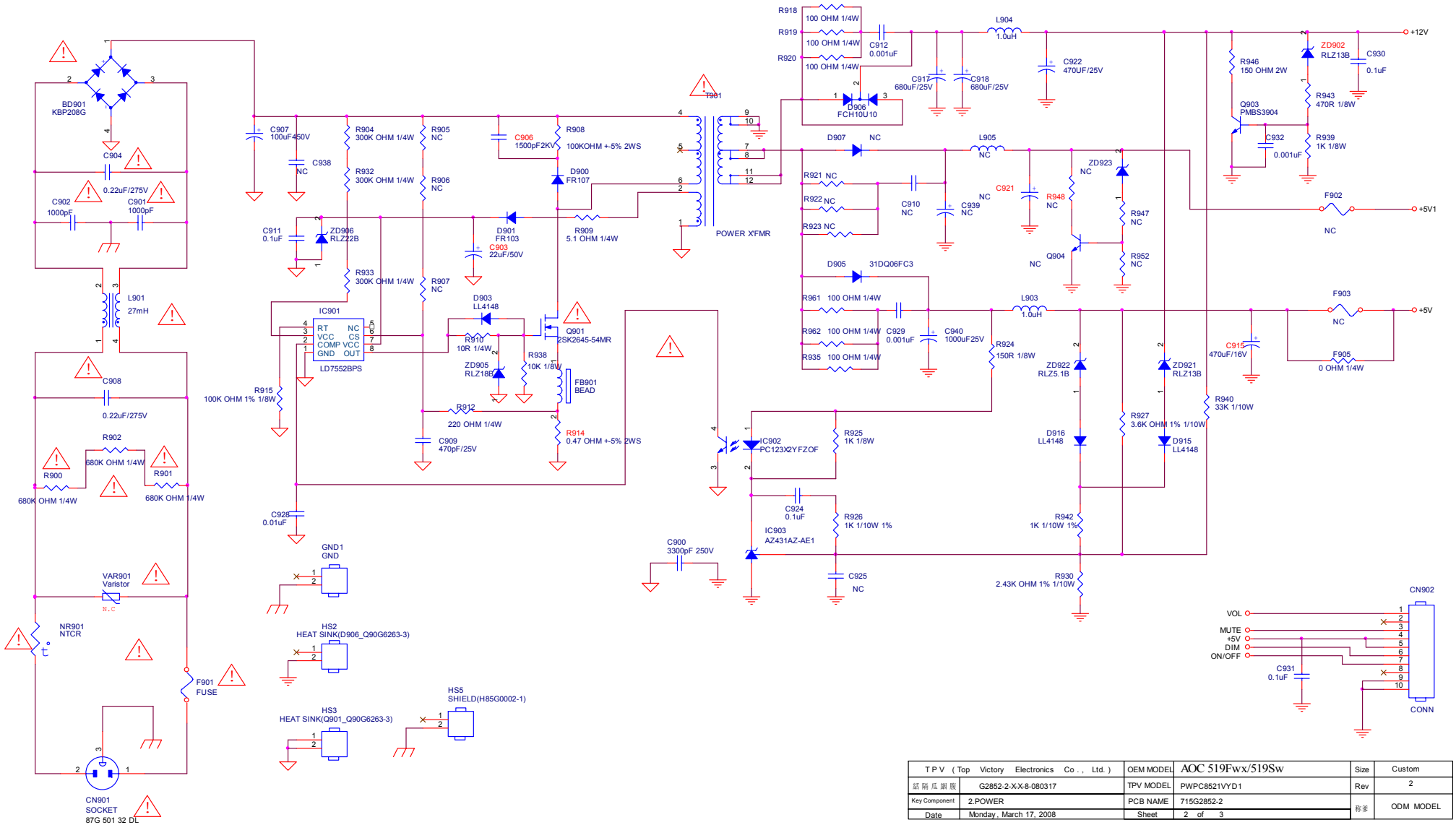
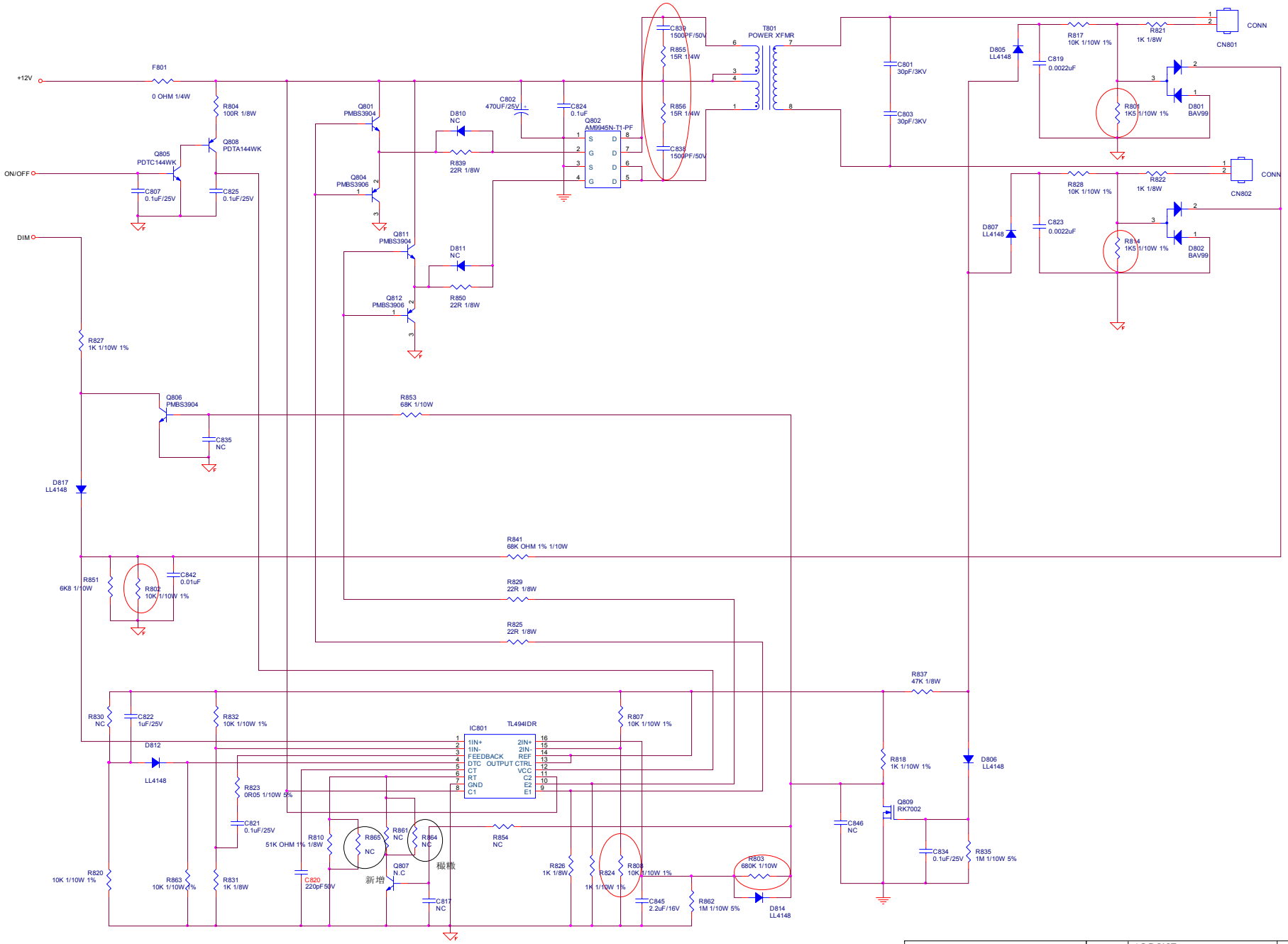
Date: Sunday, January 06, 2008	Sheet 6 of 6	

7.2 Power Board



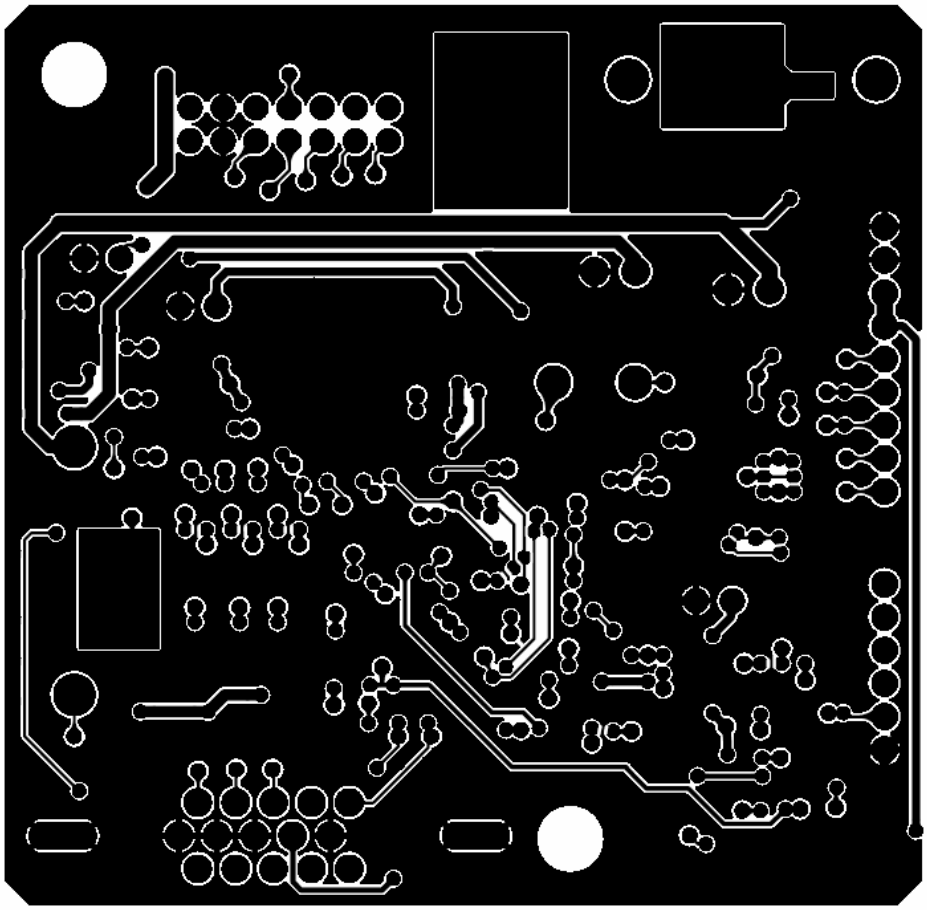
T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL	AOC 519Fwx/519Sw	Size	Custom
結 陽 瓜 鋼 版	G2852-2-X-X-8-080317	TPV MODEL	PWPC8521VYD1	Rev	2
Key Component	2.POWER	PCB NAME	715G2852-2	称 爹	ODM MODEL
Date	Monday, March 17, 2008	Sheet	2 of 3		

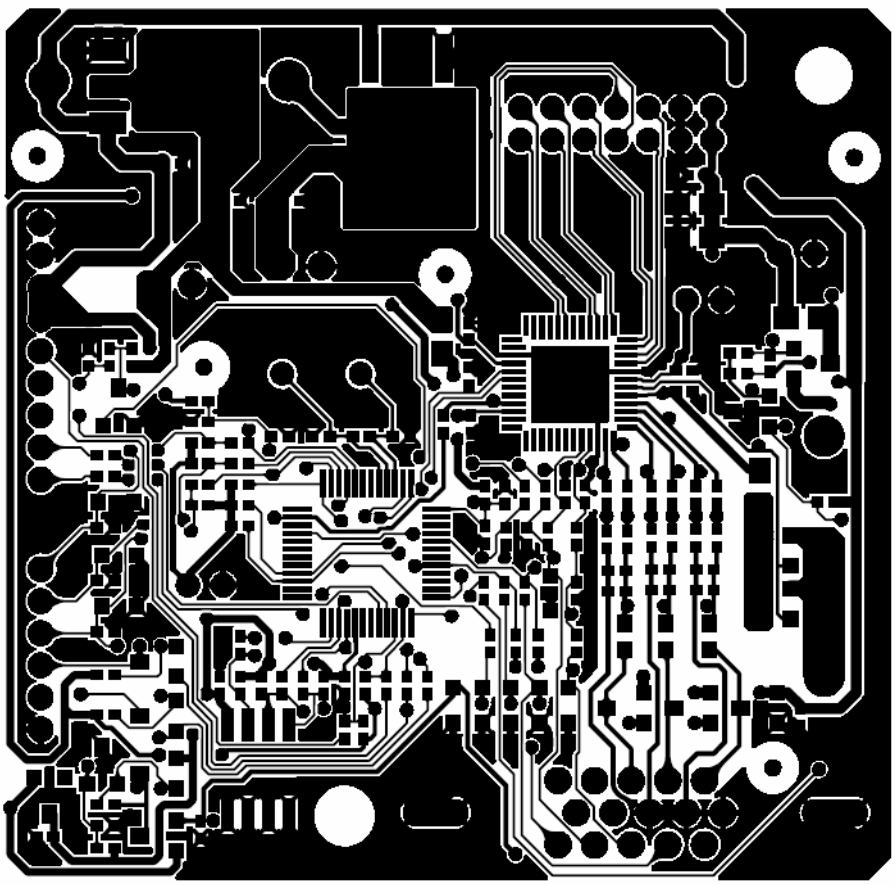


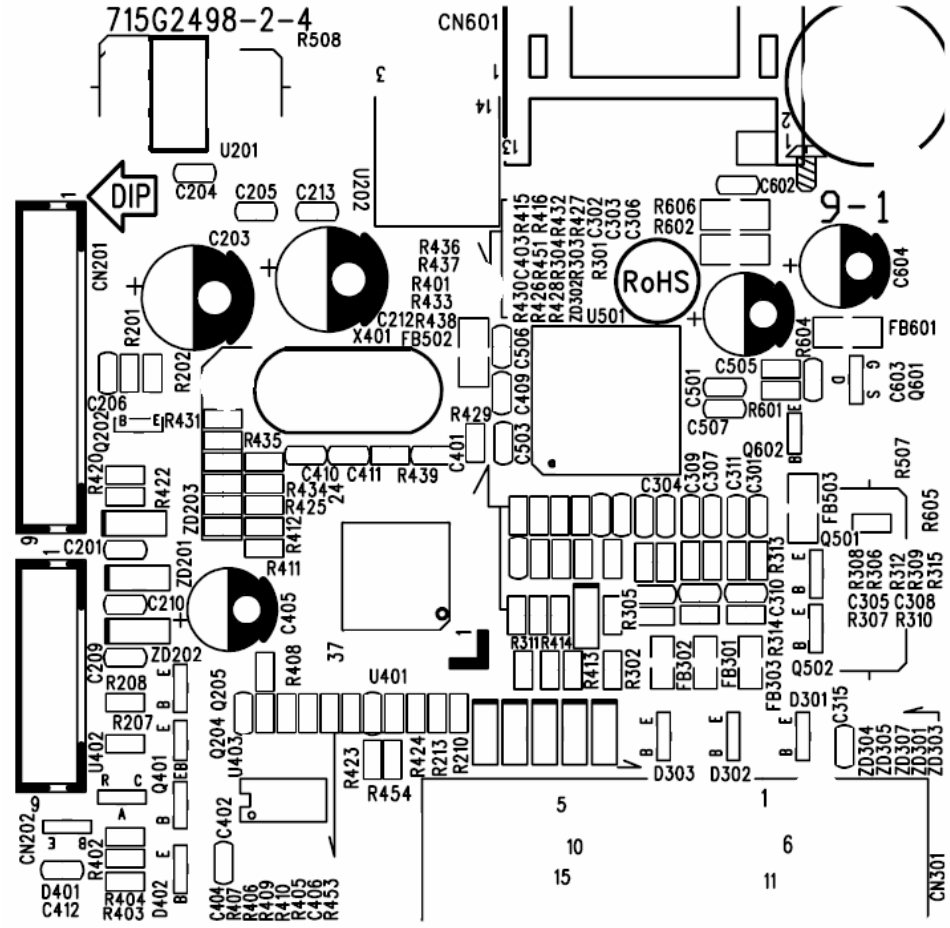
T P V （Top Victory Electronics Co., Ltd.）		OEM MODEL	AOC 519Fwx	Size	Custom
版 面 瓜 鎖 圖	G2852-2-X-X-8-080317	TPV MODEL	PWPC8521VYD1	Rev	2
Key Component	3.INVERTER	PCB NAME	715G2852-2	称 多	ODM MODEL
Date	Monday, March 17, 2008	Sheet	3 of 3		

8. PCB Layout

8.1 Main Board



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C204
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C213
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R438
X401
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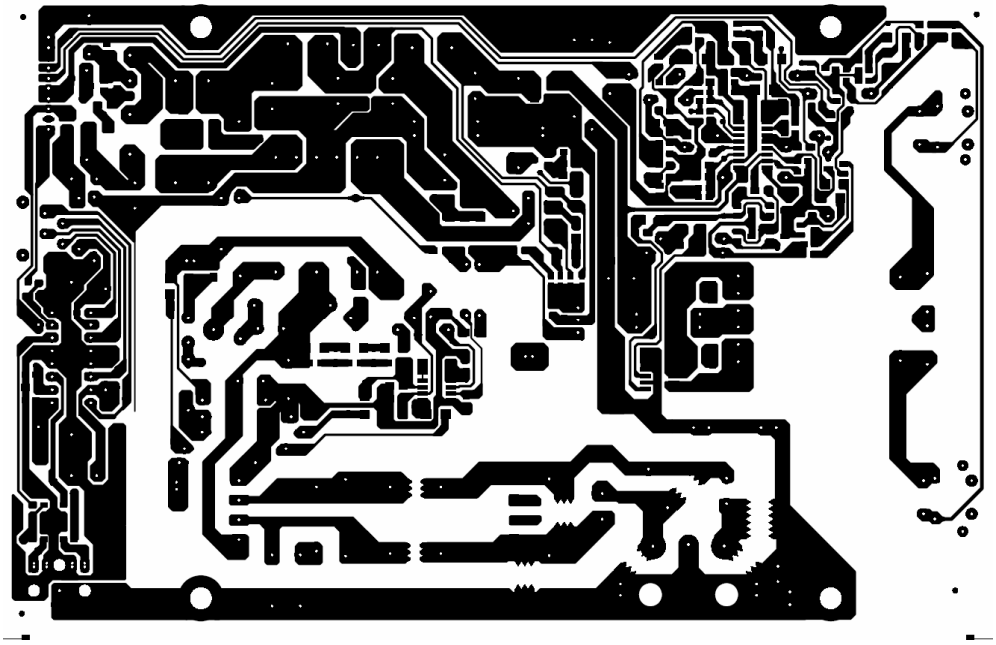
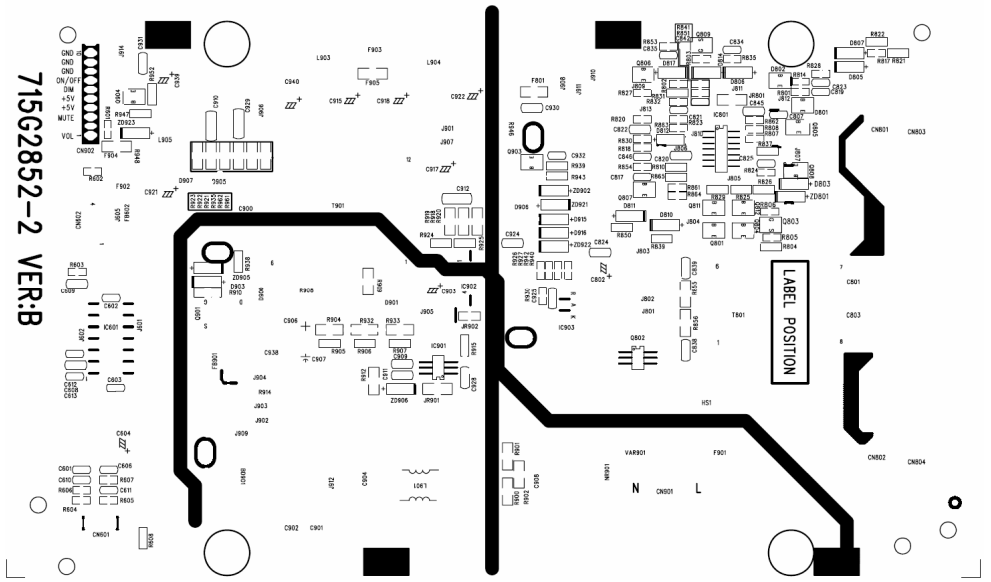
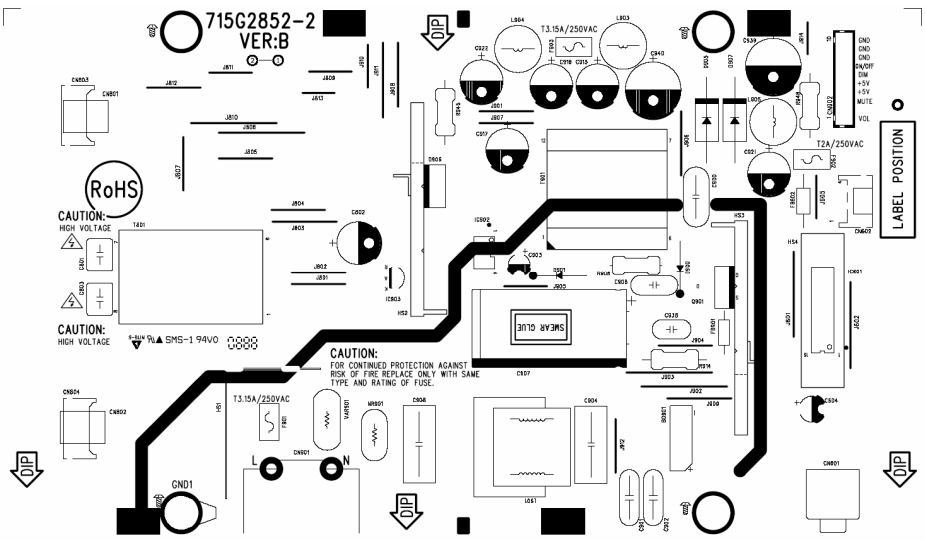
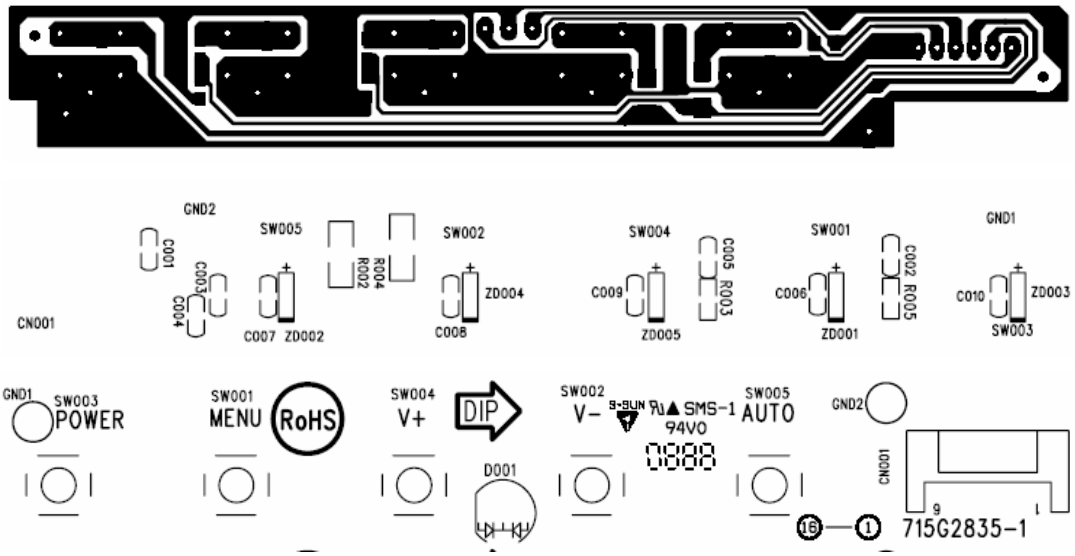
8.2 Power Board







8.3 Key Board


GND2
SW005
SW002
SW004
SW001
GND1
C001
C003
C004
R002
R004
C007
ZD002
C008
ZD004
CN001
C009
ZD005
C005
R003
C006
ZD001
C002
R005
C010
ZD003
SW003
GND1
SW003
POWER
SW001
MENU
RoHS
SW004
V+
DIP
D001
SW002
V-
SW005
AUTO
GND2
CN001
715G2835-1

9. Maintainability

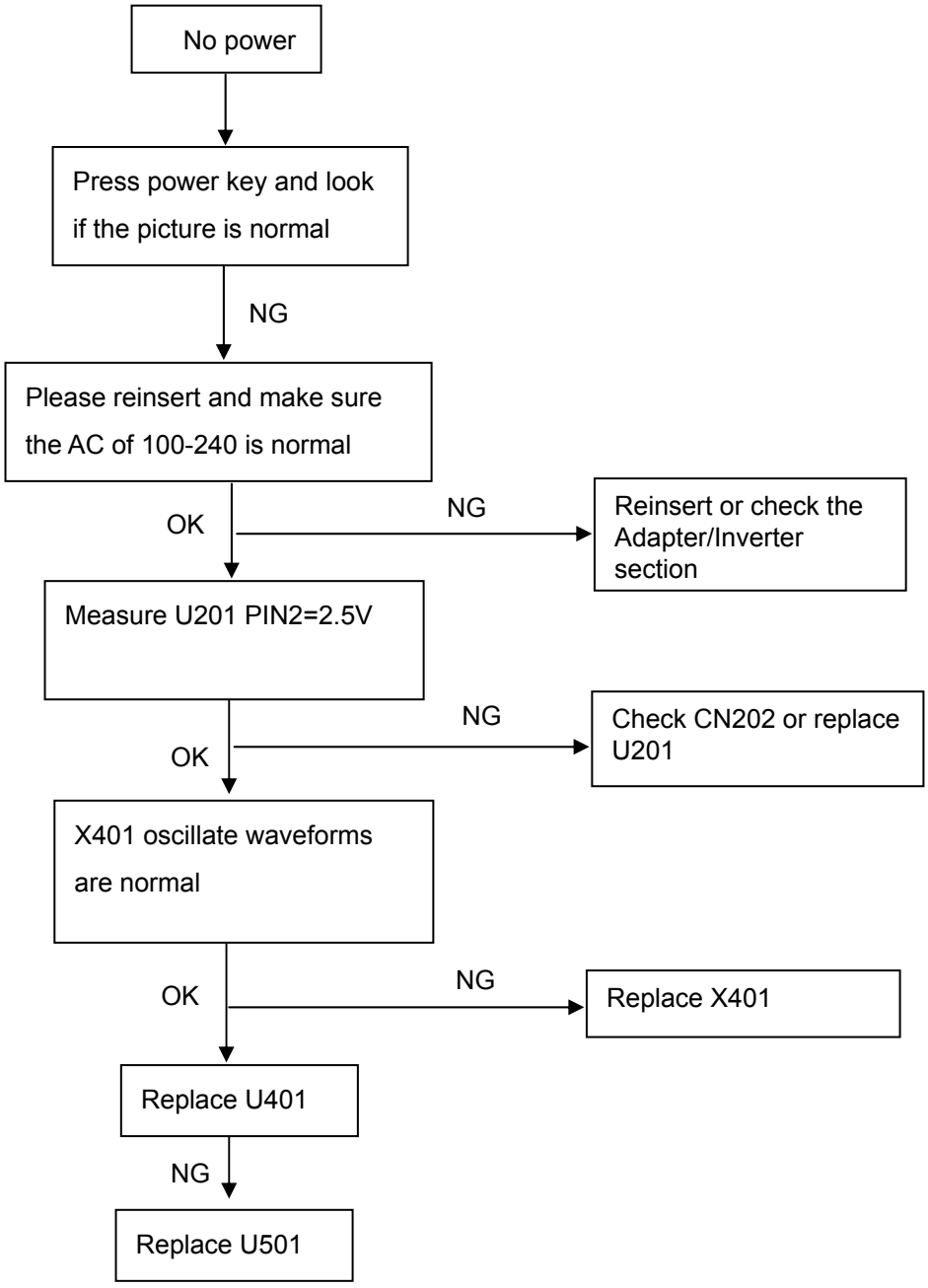
9.1 Equipment and Tools Requirement

1. Voltmeter.
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with an IBM Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.

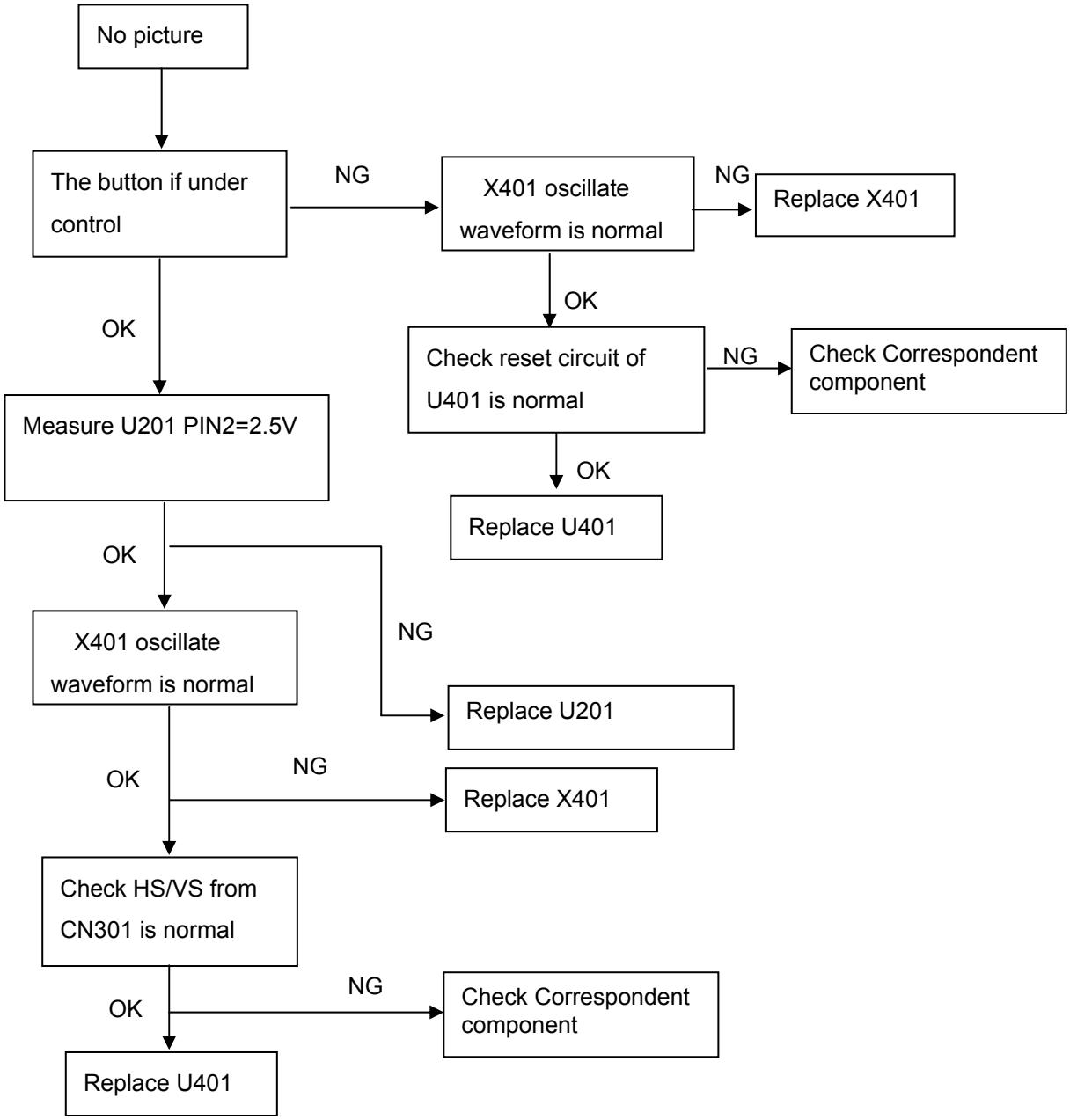
9.2 Trouble Shooting

9.2.1 Main Board

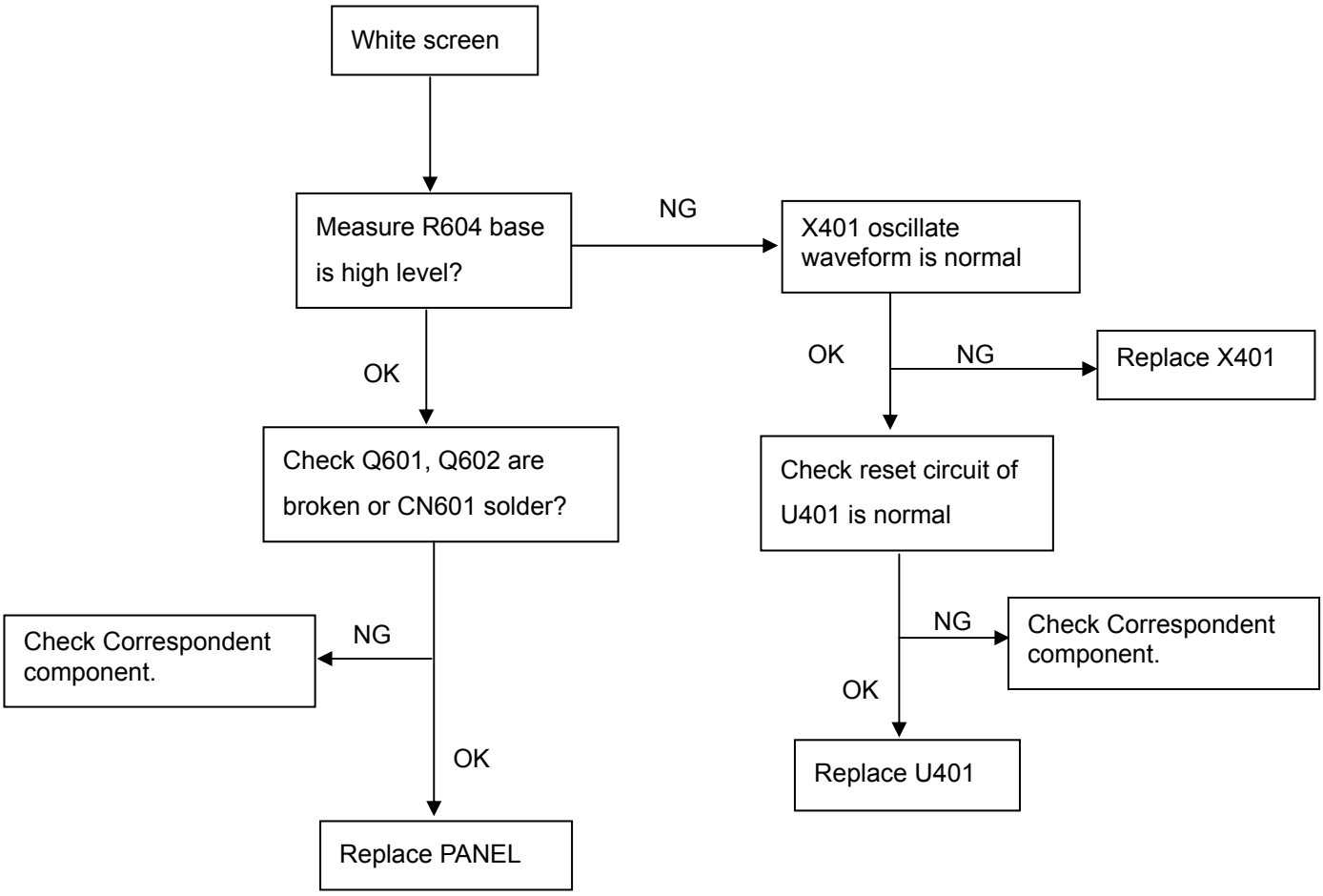
No Power



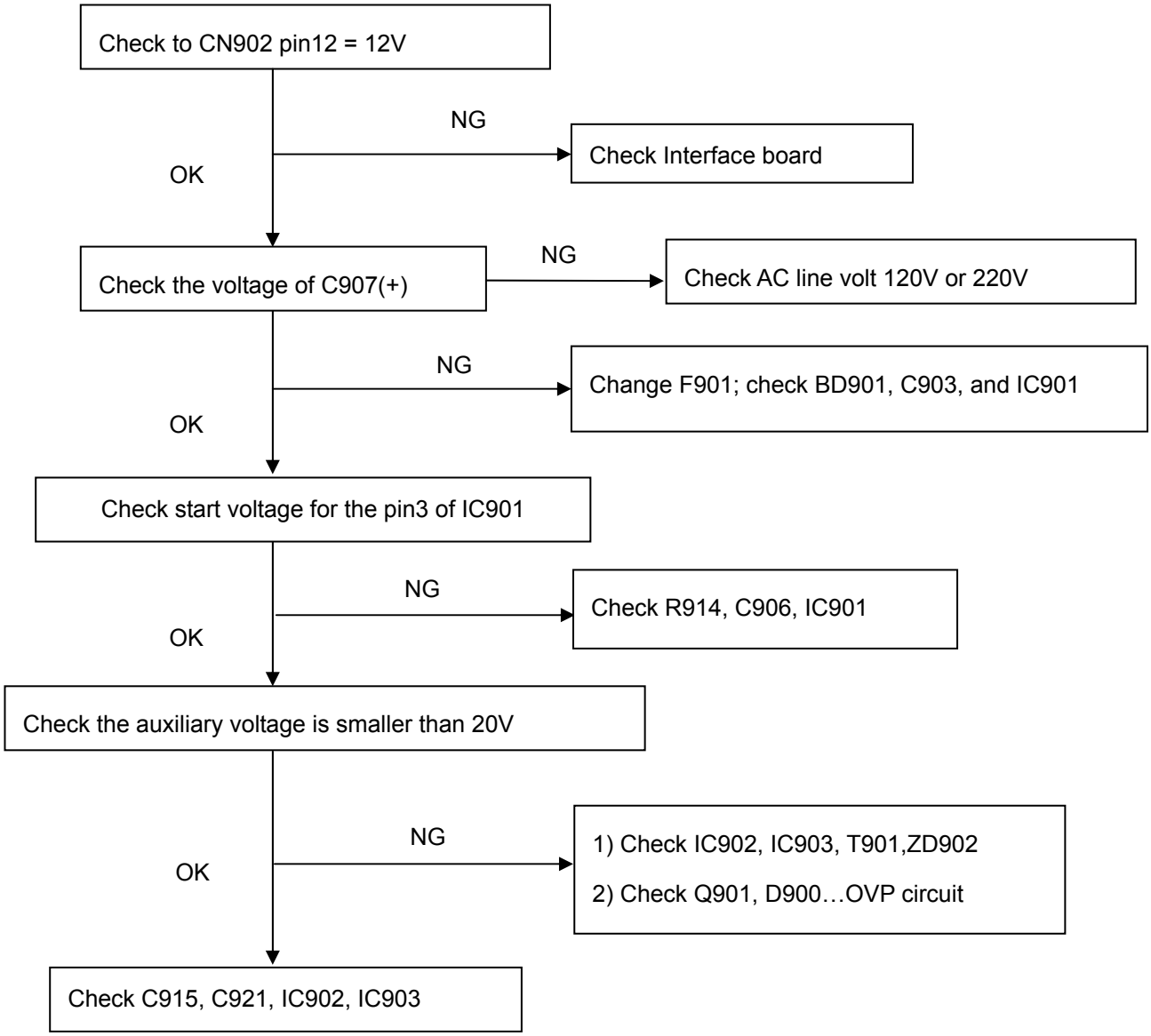
No Picture (LED orange)



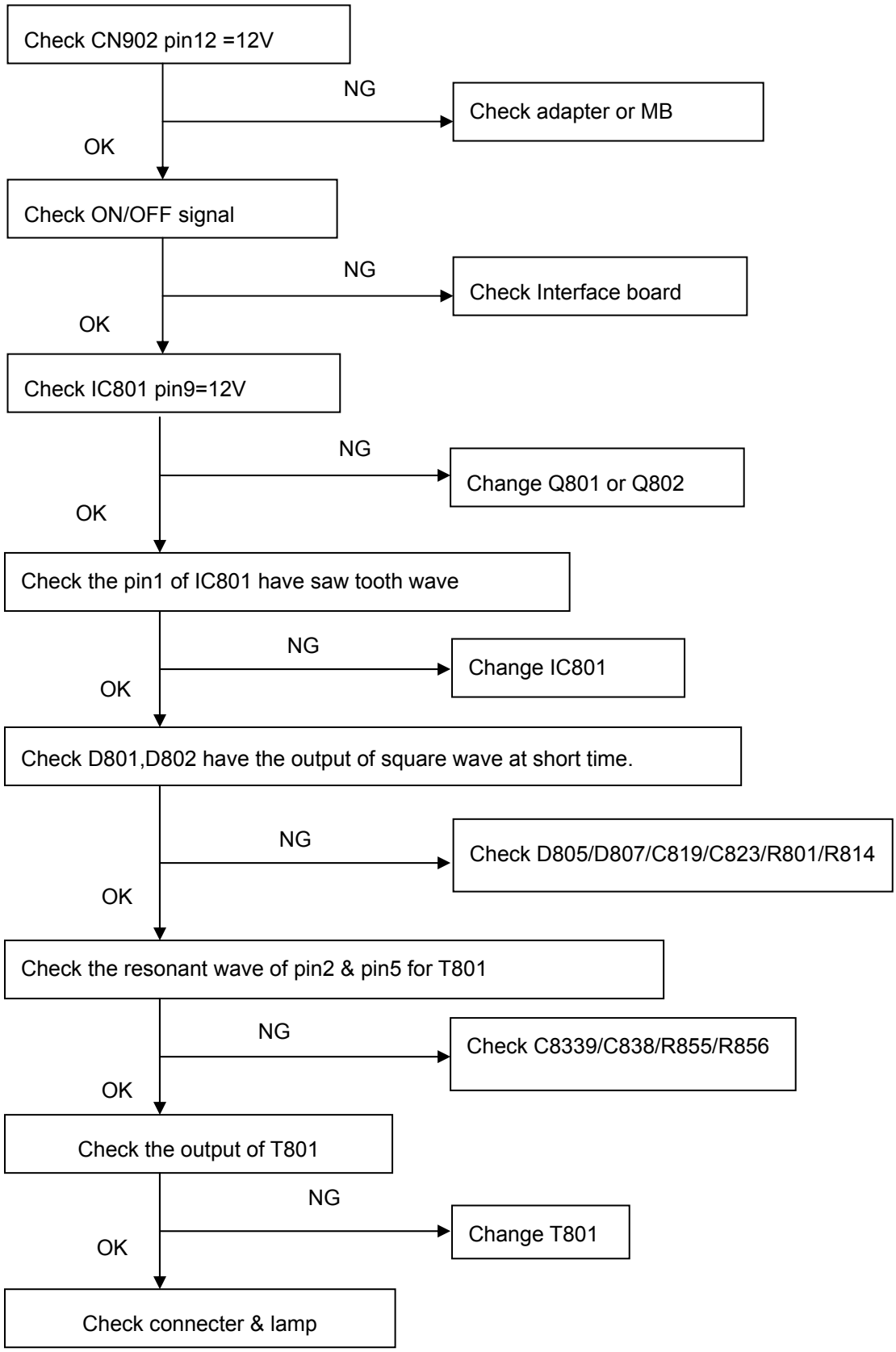
White Screen



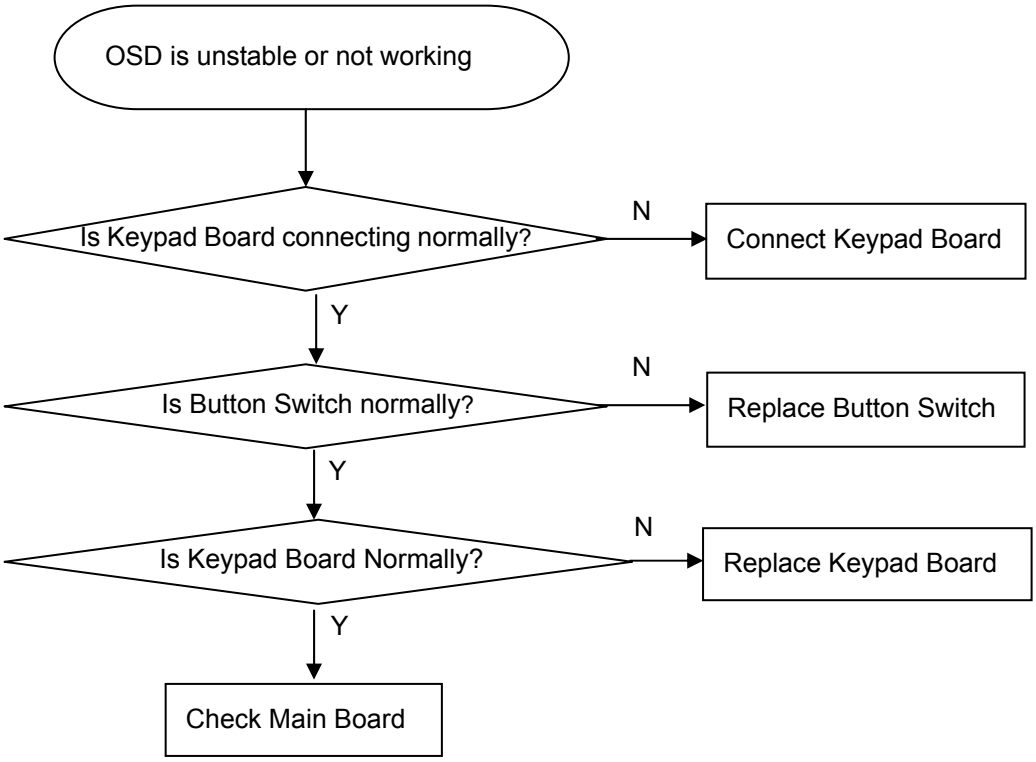
9.2.2 Power Board



2.) W / LED, No Backlight



9.2.3 Key Board



10. White- Balance, Luminance Adjustment

Approximately 30 minutes should be allowed for warm up before proceeding White-Balance adjustment.

1. How to do the Chroma-7120 MEM. Channel setting

   A. Reference to chroma 7120 user guide

   B. Use " **SC**" key and " **NEXT**" key to modify x, y, Y value and use "**ID**" key to modify the TEXT description Following is the procedure to do white-balance adjust

2. Setting the color temp. you want

   A. MEM.CHANNEL 3 (7800 color):

   7800 color temp. parameter is x = 296 ±20, y = 311 ±20, Y = 180 cd/m^2 ,

   B. MEM.CHANNEL 4 (6500 color):

   6500 color temp. parameter is x = 313±20, y = 329 ±20, Y =180 cd/m^2

3. Into factory mode of 519Sw

   Turn on power, press the MENU button, pull out the power cord, and then plug the power cord. Then the factory OSD will be at the left top of the panel.

4. Bias adjustment:

   Set the **Contrast** to 50; Adjust the **Brightness** to 90.

5. Gain adjustment:

Move cursor to "-F-" and press MENU key

   A. Adjust C2 (7800) color-temperature

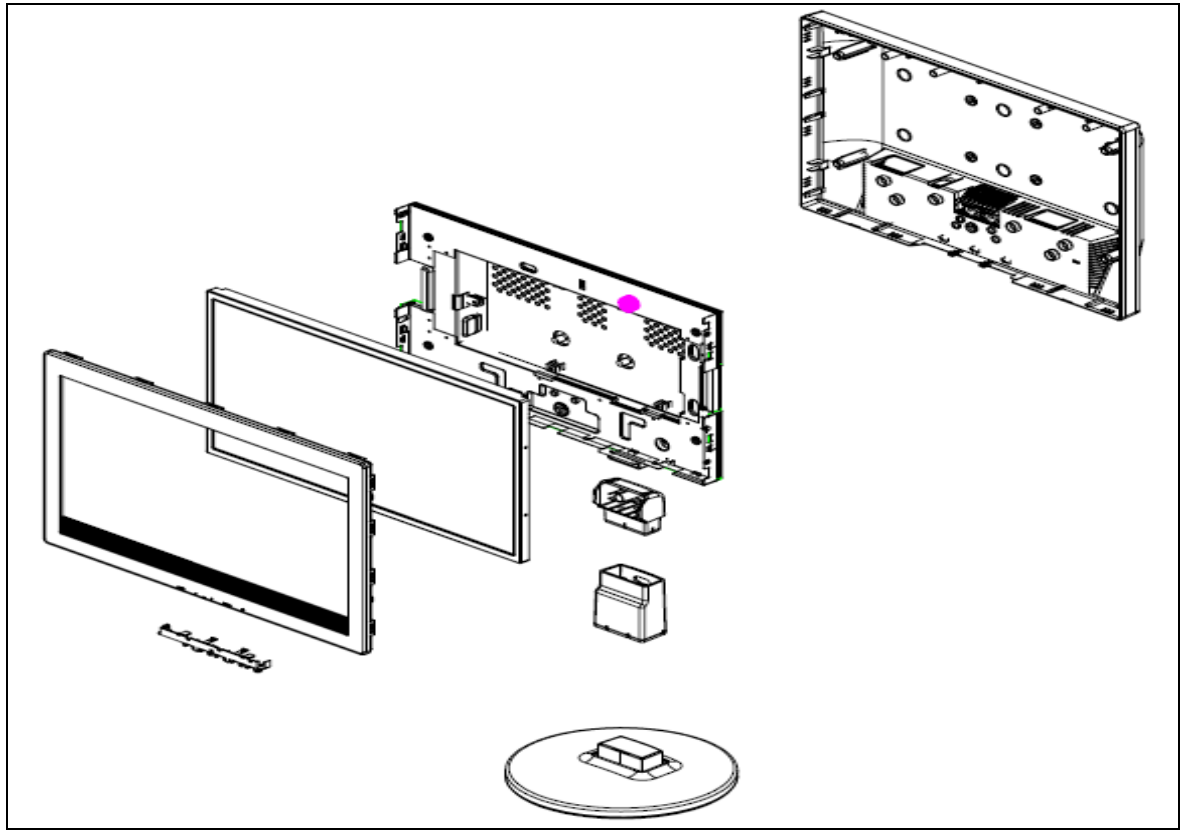
      1. Switch the Chroma-7120 to **RGB-Mode** (with press "MODE" button)
      2. Switch the MEM. Channel to Channel 3 (with up or down arrow on chroma 7120)
      3. The LCD-indicator on chroma 7120 will show x = 296 ±20, y = 311 ±20, Y =180 cd/m^2
      4. Adjust the RED of color1 on factory window until chroma 7120 indicator reached the value R=100
      5. Adjust the GREEN of color1 on factory window until chroma 7120 indicator reached the value G=100
      6. Adjust the BLUE of color1 on factory window until chroma 7120 indicator reached the value B=100
      7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±5

   B. Adjust C1 (6500) color-temperature

      1. Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)
      2. Switch the MEM.channel to Channel 4(with up or down arrow on chroma 7120)
      3. The LCD-indicator on chroma 7120 will show x = 313 ±20, y = 329 ±20, Y = 180 cd/m^2
      4. Adjust the RED of color3 on factory window until chroma 7120 indicator reached the value R=100
      5. Adjust the GREEN of color3 on factory window until chroma 7120 indicator reachedthe value G=100
      6. Adjust the BLUE of color3 on factory window until chroma 7120 indicator reached the value B=100
      7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±5

   C. Turn the Power-button off to quit from factory mode.

11. Monitor Exploded View



NO.	DESCRIPTION	PART NO.	NO.	DESCRIPTION	PART NO.
1	KEY PAD	Q33G0170	5	REAR COVER	Q34G0319
2	BEZEL	Q34G0318	6	STAND TOP	Q34G0266
3	PANEL		7	STAND	Q34G0267
4	MAIN FRAME	Q15G028	8	BASE	Q34G0268

12. BOM List

T58ARDNCWJA2NNE

Location	Part No.	Description
	026G 800504 3	BARCODE LABEL FOR 4
	040G 58162435A	P/N LABEL FOR MANUAL PE BAG
	040G 58162461A	EPA LABEL
	045G 77 3	PE PACKING
	050G 600 2	HANDLE1
	050G 600 3	HANDLE2
	052G 1150 C	INSULATING TAPE
	052G 1185	MIDDLE TAPE
	052G 1186	SMALL TAPE
	052G 1207 A	Conductive Tape 45mm *25mm *0.08mm
	052G 1211 B	Conductive Tape 85mm *40mm *0.09mm
	052G6019 1	INSULATING TAPE
E08902	089G 725HAA DB	D-SUB CABLE
	089G417A15N IS	POWER CORD
E09503	095G8014 6TE21	HARNESS 6P-6P
	095G8018B2X506	LVDS CABLE 20P-14P 120MM
	0D1G1730 8120	SCREW
	0M1G 130 5120	SCREW
	705GH834037	ASS'Y
E750	750GLU50W0112N	PAENL M150EW01 V000 SZ AUO
	AM1G1740 12 47 CR3	SCREW
	CBPC8ARDA5H1	CONVERSION G2498-2-4-X-1-080613
	H40G 15N600 1A	ID LABEL
	H41G1500600 2A	MANUAL
	H44G5023600 1A	CARTON
	H45G 87 1 7H A	EPE COVER
	H45G 87 4 H A	PE BAG FOR BASE
	KEPC8HA9	KEY G2835-1-X-X-1-080110
	PWPC7521MQD3	POWER G2852-1-X-X-3-071225
	Q15G0280101	main frame
	Q33G0170ABJ 1L0100	key pad
	Q33G0171 1 1C0100	LENS
	Q34G0318ABJ 2B0130	BEZEL(L15W-8Q1)
	Q34G0319ABJ 2B0100	REAR COVER15"
	Q44G5023101	eps
	Q44G5023201	eps
	Q45G 76 28 H A	PE BAG FOR MANUAL

	Q45G 88606 14 A	PE BAG
	Q52G6020137	protect film
	AM1G1740 12 47 CR3	SCREW
	Q34G0266ABJ 1B0100	STAND TOP
	Q34G0267ABJ 1B0120	STAND
	Q34G0268ABJ 1B0130	base 8s1
	Q37G0067011	HINGE
CN202	033G3802 6B Y W	WAFER
CN201	033G3802 9B Y W	WAFER
CN601	033G8027 14 H	WAFER 14P 2.0MM DIP
	040G 45762412B	CBPC LABEL
R507	061G152M33964L	RST MOFR 3.3 OHM +-5% 2WS
R508	061G152M51964L	RST MOFR 5.1OHM +-5% 2WS
C405	067G 3151007KV	ELCAP 10UF M 50V 105℃ KINGNICHI
C203	067G 3151014KV	EC 105℃ CAP 100uF M 25V
C212	067G 3151014KV	EC 105℃ CAP 100uF M 25V
C604	067G305V471 1	EC 105℃ 470UF M 6.3V
C505	067G315V220 7K	CAP 105℃ 22UF M 50V
CN301	088G 35315F HD	D-SUB CONN F ATTACHED SCREW
X401	093G 22 45 H	24MHZ/30PF/49US
U402	056G 158501	IC AS431AN-E1 SOT23
U501	056G 562701	SCALER IC RTD2025L QFN-48
U202	056G 563 52	IC AP1117D33L-13 TO252-3L DIODES
U201	056G 585 4A	IC AP1117E33L-13
U401	056G1125701 X	IC MCU RTD2120L-LF REALTEK
U403	056G1133 56	M24C16-WMN6TP
Q401	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q202	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q204	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q205	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q602	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q502	057G 417 22 T	TRA KN2907AS -60V/-0.6A SOT-23
Q501	057G 417 22 T	TRA KN2907AS -60V/-0.6A SOT-23
Q601	057G 763 1	A03401 SOT23 BY AOS(A1)
R302	061G0402000	RST CHIP MAX 0R05 1/16W
R427	061G0402000	RST CHIP MAX 0R05 1/16W
R429	061G0402000	RST CHIP MAX 0R05 1/16W
R408	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R409	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R410	061G0402101	RST CHIPR 100 OHM +-5% 1/16W

R430	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R432	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R433	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R434	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R435	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R315	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R313	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R312	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R311	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R309	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R308	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R306	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R303	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R301	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R454	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R453	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R424	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R423	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R402	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R601	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R438	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R436	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R425	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R416	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R404	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R213	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R210	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R207	061G0402121	RST CHIP 120R 1/16W 5%
R208	061G0402121	RST CHIP 120R 1/16W 5%
R201	061G0402201	RST CHIP 200R 1/16W 5%
R413	061G0402202	RST CHIP 2K 1/16W 5%
R414	061G0402202	RST CHIP 2K 1/16W 5%
R428	061G0402220	RST CHIPR 22 OHM +-5% 1/16W
R426	061G0402220	RST CHIPR 22 OHM +-5% 1/16W
R304	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W
R305	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W
R401	061G0402392	RST CHIP 3.9K 1/16W 5%
R403	061G0402392	RST CHIP 3.9K 1/16W 5%
R437	061G0402392	RST CHIP 3.9K 1/16W 5%
R605	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W

R451	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R412	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R411	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R407	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R406	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R405	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R202	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R604	061G0402473	RST CHIPR 47 KOHM +-5% 1/16W
R415	061G0402682	RST CHIP 6K8 1/16W 5%
R431	061G0402682	RST CHIP 6K8 1/16W 5%
R439	061G0402682	RST CHIP 6K8 1/16W 5%
R307	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R310	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R314	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R602	061G0805331	RST CHIPR 330 OHM +-5% 1/8W
C401	065G0402100 31	CAP 0402 10PF J 50V NPO
C411	065G0402100 31	CAP 0402 10PF J 50V NPO
C602	065G0402103 22	CHIP 0.01UF 25V X7R
C603	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C507	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C506	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C503	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C501	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C410	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C406	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C403	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C315	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C213	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C210	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C209	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C206	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C205	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C204	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C201	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C412	065G0402105 A5	CAP 0402 1UF K 10V X5R
C402	065G0402105 A5	CAP 0402 1UF K 10V X5R
C302	065G0402220 31	CHIP 22PF 50V NPO
C303	065G0402220 31	CHIP 22PF 50V NPO
C404	065G0402224 17	CAP CER 0.22UF -20%-80%
C311	065G0402473 12	CHIP 0.047uF 16V X7R

C309	065G0402473 12	CHIP 0.047uF 16V X7R
C307	065G0402473 12	CHIP 0.047uF 16V X7R
C306	065G0402473 12	CHIP 0.047uF 16V X7R
C304	065G0402473 12	CHIP 0.047uF 16V X7R
C301	065G0402473 12	CHIP 0.047uF 16V X7R
C305	065G0402509 31	CHIP 5pF 50V NPO
C308	065G0402509 31	CHIP 5pF 50V NPO
C310	065G0402509 31	CHIP 5pF 50V NPO
FB502	071G 56K121 M	CHIP BEAD
FB503	071G 56K121 M	CHIP BEAD
FB601	071G 56K121 M	CHIP BEAD
FB303	071G 59K190 B	19 OHM BEAD
FB302	071G 59K190 B	19 OHM BEAD
FB301	071G 59K190 B	19 OHM BEAD
ZD307	093G 39S 34 T	UDZSNP5.6B ROHM
ZD305	093G 39S 34 T	UDZSNP5.6B ROHM
ZD304	093G 39S 34 T	UDZSNP5.6B ROHM
ZD303	093G 39S 34 T	UDZSNP5.6B ROHM
ZD302	093G 39S 34 T	UDZSNP5.6B ROHM
ZD301	093G 39S 34 T	UDZSNP5.6B ROHM
	715G2498 2 4	MAIN BOARD PCB
D301	093G 6433S	DIODE BAV99 SEMTECH
D302	093G 6433S	DIODE BAV99 SEMTECH
D303	093G 6433S	DIODE BAV99 SEMTECH
D402	093G 64 42 P	BAV70 SOT23 BY PAN JIT
CN001	033G3802 6B YH W	WAFER
SW005	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW004	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW003	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW002	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW001	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
D001	081G 12 1F GH	1ED 3Pin Φ3 黄绿双色 GHZYG603D2-5B
CN802	033G8021 2E F	WAFER
CN801	033G8021 2E F	WAFER
	040G 45762412B	CBPC LABEL
IC902	056G 139 3A	IC PC123Y22FZ0F
NR901	061G 58080 WT	8 OHM NCT
C904	063G107K2246S1	X2 CAP 0.22UF K 275VAC
C908	063G107K2246S1	X2 CAP 0.22UF K 275VAC
C801	065G 3J3006ET	30PF 5% SL 3KV TDK

C803	065G 3J3006ET	30PF 5% SL 3KV TDK
C901	065G305M1022BP	Y2 1000PF M 250VAC Y5P
C902	065G305M1022BP	Y2 1000PF M 250VAC Y5P
C900	065G306M3322BP	3300PF 20%
C907	067G 40Z10115K	CAP 105℃ 100UF M 450V
C918	067G215D6814KV	CAP 105℃ 680uF M 25V
C917	067G215D6814KV	CAP 105℃ 680uF M 25V
C940	067G215P1024PV	CAP 105℃ 1000UF M 25V
C922	067G215P4714PV	CAP 105℃ 470UF M 25V
C802	067G215P4714PV	CAP 105℃ 470UF M 25V
L904	073G 253 91 V1	CHOKE COIL 1.1uH
L903	073G 253 91 V1	CHOKE COIL 1.1uH
L901	073L 174 40 HG	GBQM4.778.391
T901	080GL19T 26 T	X'FMR 460uH SRW24LQL-T15H016
CN901	087G 501 32 S	AC SOCKET
D905	093G3006 1 1	31DQ06FC3 NIHON INTER
CN902	095G 82010XE04	HARNESS 10P-9P
	705GQ757011	Q901 ASS'Y
	705GQ793053	D906 ASS'Y
T801	S80GL17T40V	TRANSFORMER ASS'Y
C915	067G215S4713KT	470UF 16V
BD901	093G 50460 28	BRIDGE DIODE KBP208G LITEON
R003	061G0603000 1F	RST CHIPR 0 OHM +-1% 1/10W
R005	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R004	061G1206200 1F	RST CHIPR 2.0 KOHM +-1% 1/4W
R002	061G1206200 1F	RST CHIPR 2.0 KOHM +-1% 1/4W
	715G2835 1	KEY BOARD PCB
Q901	057G 724 11	STP9NK65ZFP
	0M1G1730 8120	SCREW
HS3	Q90G6263 3	HEAT SINK
D906	093G 60267	SP10100
	0M1G1730 8120	SCREW
HS2	Q90G6263 3	HEAT SINK
IC801	056G 379 22	IC TL494IDR SOIC-16
IC901	056G 379 76	IC LD7552BPS SOP-8
Q801	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q806	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q811	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q903	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q804	057G 417 6	PMBS3906/PHILIPS-SMT(06)

Q812	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q809	057G 759 2	RK7002
Q808	057G 760 4B	PDTA144WK SOT346
Q805	057G 760 5B	PDTC144WK SOT346
Q802	057G 763 6	AO4828L
R823	061G0603000	RST CHIP MAX 0R05 1/10W
R942	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R926	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R827	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R824	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R818	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R802	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R807	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R808	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R817	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R820	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R828	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R832	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R863	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R835	061G0603105	RST CHIPR 1M OHM +-5% 1/10W
R862	061G0603105	RST CHIPR 1M OHM +-5% 1/10W
R801	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W
R814	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W
R930	061G0603243 1F	RST CHIPR 2.43K OHM +-1% 1/10W
R940	061G0603330 2F	RST CHIPR 33K OHM +-1% 1/10W
R927	061G0603360 1F	RST CHIPR 3.6K OHM +-1% 1/10W
R851	061G0603680 1F	RST CHIPR 6.8 KOHM +-1% 1/10W
R841	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W
R853	061G0603683	RST CHIPR 68K OHM +-5% 1/10W
R803	061G0603684	RST CHIPR 680 KOHM +-5% 1/10W
JR902	061G0805000	RST CHIP MAX 0R05 1/8W
R831	061G0805100 1F	RST CHIPR 1K OHM +-1% 1/8W
R822	061G0805100 1F	RST CHIPR 1K OHM +-1% 1/8W
R821	061G0805100 1F	RST CHIPR 1K OHM +-1% 1/8W
R915	061G0805100 3F	RST CHIPR 100KOHM +-1% 1/8W
R804	061G0805101	1ST CHIPR 100 OHM +-5% 1/8W
R826	061G0805102	RST CHIPR 1K OHM +-5% 1/8W
R925	061G0805102	RST CHIPR 1K OHM +-5% 1/8W
R939	061G0805102	RST CHIPR 1K OHM +-5% 1/8W
R938	061G0805103	RST CHIPR 10K OHM +-5% 1/8W

R924	061G0805151	RST CHIPR 150 OHM +-5% 1/8W
R825	061G0805220	RST CHIPR 22 OHM +-5% 1/8W
R829	061G0805220	RST CHIPR 22 OHM +-5% 1/8W
R850	061G0805220	RST CHIPR 22 OHM +-5% 1/8W
R839	061G0805220	RST CHIPR 22 OHM +-5% 1/8W
R943	061G0805471	RST CHIPR 470 OHM +-5% 1/8W
R837	061G0805473	RST CHIPR 47K OHM +-5% 1/8W
R810	061G0805510 2F	RST CHIPR 51K OHM +-1% 1/8W
JR801	061G1206000	RST CHIP MAX 0R05 1/4W
JR901	061G1206000	RST CHIP MAX 0R05 1/4W
F801	061G1206000 4	RST CHIP MAX 0R05 1/4W
F905	061G1206000 4	RST CHIP MAX 0R05 1/4W
R910	061G1206100	RST CHIPR 10 OHM +-5% 1/4W
R918	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R919	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R920	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R935	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R961	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R962	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R855	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R856	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R912	061G1206221	RST CHIPR 220 OHM +-5% 1/4W
R904	061G1206304	RST CHIPR 300k OHM +-5% 1/4W
R932	061G1206304	RST CHIPR 300k OHM +-5% 1/4W
R933	061G1206304	RST CHIPR 300k OHM +-5% 1/4W
R909	061G1206519	RST CHIPR 5.1 OHM +-5% 1/4W
R902	061G1206684	RST CHIPR 680K OHM +-5% 1/4W
R901	061G1206684	RST CHIPR 680K OHM +-5% 1/4W
R900	061G1206684	RST CHIPR 680K OHM +-5% 1/4W
C932	065G0603102 32	1000PF +-10% 50V X7R
C842	065G0603103 32	CAP CHIP 0603 0.01UF K 50V X7R
C807	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R
C821	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R
C825	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R
C834	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R
C819	065G0603222 32	CHIP 2200PF 50V X7R
C823	065G0603222 32	CHIP 2200PF 50V X7R
C928	065G0805103 32	CAP CHIP 0805 10NF K 50V X7R
C824	065G0805104 32	CAP CHIP 0805 0.1uF K 50V X7R
C911	065G0805104 32	CAP CHIP 0805 0.1uF K 50V X7R

C924	065G0805104 32	CAP CHIP 0805 0.1uF K 50V X7R
C930	065G0805104 32	CAP CHIP 0805 0.1uF K 50V X7R
C931	065G0805104 32	CAP CHIP 0805 0.1uF K 50V X7R
C822	065G0805105 22	CAP CHIP 0805 1uF K 25V X7R
C838	065G0805152 31	1.5nF/50V
C839	065G0805152 31	1.5nF/50V
C820	065G080522131G	CAP CHIP 0805 220PF G 50V NPO
C845	065G0805225 12	CAP CHIP 0805 2.2UF K 16V X7R
C909	065G0805471 31	CHIP 470PF 50V NPO
C912	065G1206102 72	CAP CHIP 1206 1000PF K 500V X7R
C929	065G1206102 72	CAP CHIP 1206 1000PF K 500V X7R
D801	093G 6433S	DIODE BAV99 SEMTECH
D802	093G 6433S	DIODE BAV99 SEMTECH
ZD906	093G 39S 20 T	RLZ22B LLDS
ZD922	093G 39S 25 T	RLZ5.1B LLDS
ZD902	093G 39S 40 T	RLZ 13B LLDS
ZD921	093G 39S 40 T	RLZ 13B LLDS
ZD905	093G 39S 44 T	RLZ18B LLDS
D805	093G 64S522SEM	LL4148
D806	093G 64S522SEM	LL4148
D807	093G 64S522SEM	LL4148
D812	093G 64S522SEM	LL4148
D814	093G 64S522SEM	LL4148
D817	093G 64S522SEM	LL4148
D903	093G 64S522SEM	LL4148
D915	093G 64S522SEM	LL4148
D916	093G 64S522SEM	LL4148
CN901	006G 31500	EYELET
IC903	056G 158 10 T	IC AS431AZTR-E1 TO-92
R908	061G152M10452T	RST MOFR 100KOHM +-5% 2WS
R946	061G152M15152T	RST MOFR 150 OHM +-5% 2WS
R914	061G152M47852T	RST MOFR 0.47 OHM +-5% 2WS
C906	065G 2K152 1T	CER CAP 1500PF K 2KV
C903	067G215P2207PT	CAP 105℃ 22UF M 50V
FB901	071G 55 29	FERRITE BEAD
F901	084G 56 3 B	FUSE 3.15A 250V
D900	093G 6026T52T	RECTIFIER DIODE FR107
D901	093G 6038T52T	FR103
	715G2852 2	POWER BOARD PCB

12. Different Parts List

Diversity of T58ARDNCWJA13NE compared with T58ARDNCWJA2NNE		
Location	**Part No.**	**Description**
E08901	089G404A15N YH	POWER CORD
	705GH834028	ASS'Y
	CBPC8ARDA5HK	CONVERSION G2498-2-4-X-1-080613
	H40G 15N61519A	ID LABEL
	KEPC8HBK	KEY G2835-1-X-X-1-080110
	PWPC8521MHD1K	G2852-2-X-X-3-081114
	Q15G0280101CKD	main frame
	Q34G0318ABJA1B0130	BEZEL(L15W-8Q1A)
	Q34G0319ABJA2B0100	REAR COVER15"
	Q40G000260811A	Basic label
	Q52G6019 14	TAPE

Diversity of T58ARDNCWJA4NNE compared with T58ARDNCWJA2NNE		
Location	**Part No.**	**Description**
	050G 600 4	Handle 1
	705GH834028	ASS'Y
	H40G 15N61518A	ID LABEL
	H41G780061547A	QSG
	H44G5023615 2A	CARTON
	H70G2008615 5B	CD MANUAL
	Q34G0318ABJA1B0130	BEZEL(L15W-8Q1A)
	Q34G0319ABJA2B0100	REAR COVER15"
	Q40G000260811A	Basic label
	Q52G 1185 99	BIG CARTON TAPE FOR AOC

Diversity of T58ARDNCWJA1NNE compared with T58ARDNCWJA2NNE		
Location	**Part No.**	**Description**
	050G 600 4	Handle 1
E08902	089G 715HAA D2	SIGNAL CABLE
E08901	089G402A15N IS	POWER CORD
	705GH834028	ASS'Y
	CBPC8ARDA5H2	CONVERSION G2498-2-4-X-1-080613
	H26G 800504 2A	barcode
	H40G 15N61517A	ID LABEL
	H41G780061547A	QSG
	H44G5023615 2A	CARTON
	H70G2008615 5B	CD MANUAL

	Q34G0318ABJA1B0130	BEZEL(L15W-8Q1A)
	Q34G0319ABJA2B0100	REAR COVER15"
	Q40G000260811A	Basic label
	Q52G 1185 98	MIDDLE CARTON TAPE FOR AOC
	Q52G 1185 99	BIG CARTON TAPE FOR AOC